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AMRL-TR-73-110 (3)
Volume 3



COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS:

Volume 3. Acoustic Data on Military Aircraft: Air Force Attack/Fighter Aircraft

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FEBRUARY 1978

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AEROSPACE MEDICAL RESEARCH LABORATORY
AEROSPACE MEDICAL DIVISION
AIR FORCE SYSTEMS COMMAND
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433

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TECHNICAL REVIEW AND APPROVAL

AMRL-TR-73-110
Volume 3

The experiments reported herein were conducted according to the "Guide for the Care and Use of Laboratory Animals," Institute of Laboratory Animal Resources, National Research Council.

The voluntary informed consent of the subjects used in this research was obtained as required by Air Force Regulation 80-33.

This report has been reviewed by the Information Office (OI) and is releasable to the National Technical Information Service (NTIS). At NTIS, it will be available to the general public, including foreign nations.

This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER

Henning E. von Gierke

HENNING E. VON GIERKE
Director
Biodynamics and Bioengineering Division
Aerospace Medical Research Laboratory

AIR FORCE/56780/23 March 1978 — 150

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This report presents the results of field test measurements to define the noise produced on the ground by military, fixed wing aircraft during controlled level flyovers and ground runups. For flight conditions, data are presented in terms of various acoustic measures over the range 200-25,000 feet minimum slant distance to the aircraft. For ground runups, data are presented as a function of angle and distance to the aircraft.

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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All of the data are normalized to standard acoustic reference conditions of 59°F temperature and 70% relative humidity.) Volume 1 discusses the scope, limitations, and definitions needed to understand and use the volumes containing the noise data. Volume 1 provides guidance for making airspeed and engine power setting adjustments to the flight noise data for other than reference conditions as well as work sheets and several examples for computing cumulative noise exposure resulting from multiple flight or ground runup operations. Noise data are presented in this Volume 3 for the following aircraft: A-7D,E; A-10A; A-37B; F-4C,D,E,F; F-5A, B; F-5E,F; F-15A; F-16A; F-104C,D,G; F-111A,E; F-111D, and F-111F.

PREFACE

The authors gratefully acknowledge the many helpful technical discussions and critical reviews of the data acquisition and reduction procedures by Bolt Beranek and Newman Inc. and Mr. John N. Cole of the Biodynamic Environment Branch; development of the OMEGA software programs by Mr. Henry Mohlman and maintenance of the data files by Mr. David Eilerman both of the University of Dayton Research Institute, the instrumentation development and noise measurement efforts of Harald K. Hille of the Biodynamic Environment Branch; and the noise measurement efforts of Capt. N. A. Farinacci of the Biodynamic Environment Branch and Mr. L. Keith Kettler of the University of Dayton Research Institute.

This report is one of a series describing the contractual and in-house research program undertaken by the Aerospace Medical Research Laboratory, Biodynamic Environment Branch, under Project/Task 723104, "Measurement and Prediction of Noise Environments of Air Force Operations," to develop the procedures and acoustic data base required for predicting community noise exposure resulting from aircraft operations.

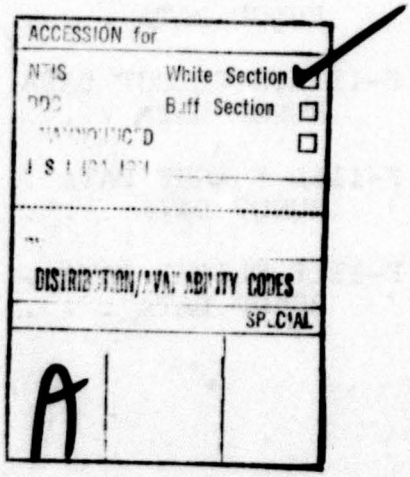


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INTRODUCTION

This report is one of a series published under the same report number (AMRL-TR-73-110) as a multi-volume databook quantifying the single event far-field noise produced on the ground by flyover and ground runup operations of military aircraft. A companion report (AMRL-TR-73-107, "Community Noise Exposure Resulting From Aircraft Operations: Acquisition and Analysis of Acoustic Data") describes the test protocol and data reduction algorithms associated with these data.

Volume 1 discusses the scope, definitions, and limitations of the noise data volumes as well as providing work sheets and several examples for making hand computations of noise exposure from multiple flight and/or ground runup operations.

Volume 3 provides the noise characteristics of Air Force attack and fighter type aircraft.

For identification purposes a code number has been assigned that is unique for each aircraft type. The noise data for aircraft codes less than 500 are based on measured flyovers and ground run-ups. The noise data for aircraft codes greater than 500 are estimated from measured data on aircraft having similar engines with adjustments made to account for different numbers of engines or different thrust.

The OMEGA 6.6 output pages describe the flyover noise characteristics while the OMEGA 8.2 output pages show the expected noise levels for *single* engine operation during ground runup.

For ease of comparing flight noise levels of different aircraft, the graphs of noise versus distance shown in the OMEGA 6 printouts are sized to fit the standard 3-cycle by 10 divisions per inch semi-logarithmic paper.

The other noise data volumes are categorized according to:

Vol. 2: Air Force Bomber/Cargo Aircraft Noise Data
Vol. 4: Air Force Trainer/Fighter Aircraft Noise Data
Vol. 5: Air Force Propeller Aircraft Noise Data
Vol. 6: Navy Aircraft Noise Data

Direct any questions concerning the data in this report to: AMRL/BBE, Wright-Patterson AFB OH 45433. AUTOVON 78-53664 or 78-53605; Commercial (513) 255-3664 or (513) 255-3605.

USAF A-7 AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

A-7 AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 133
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

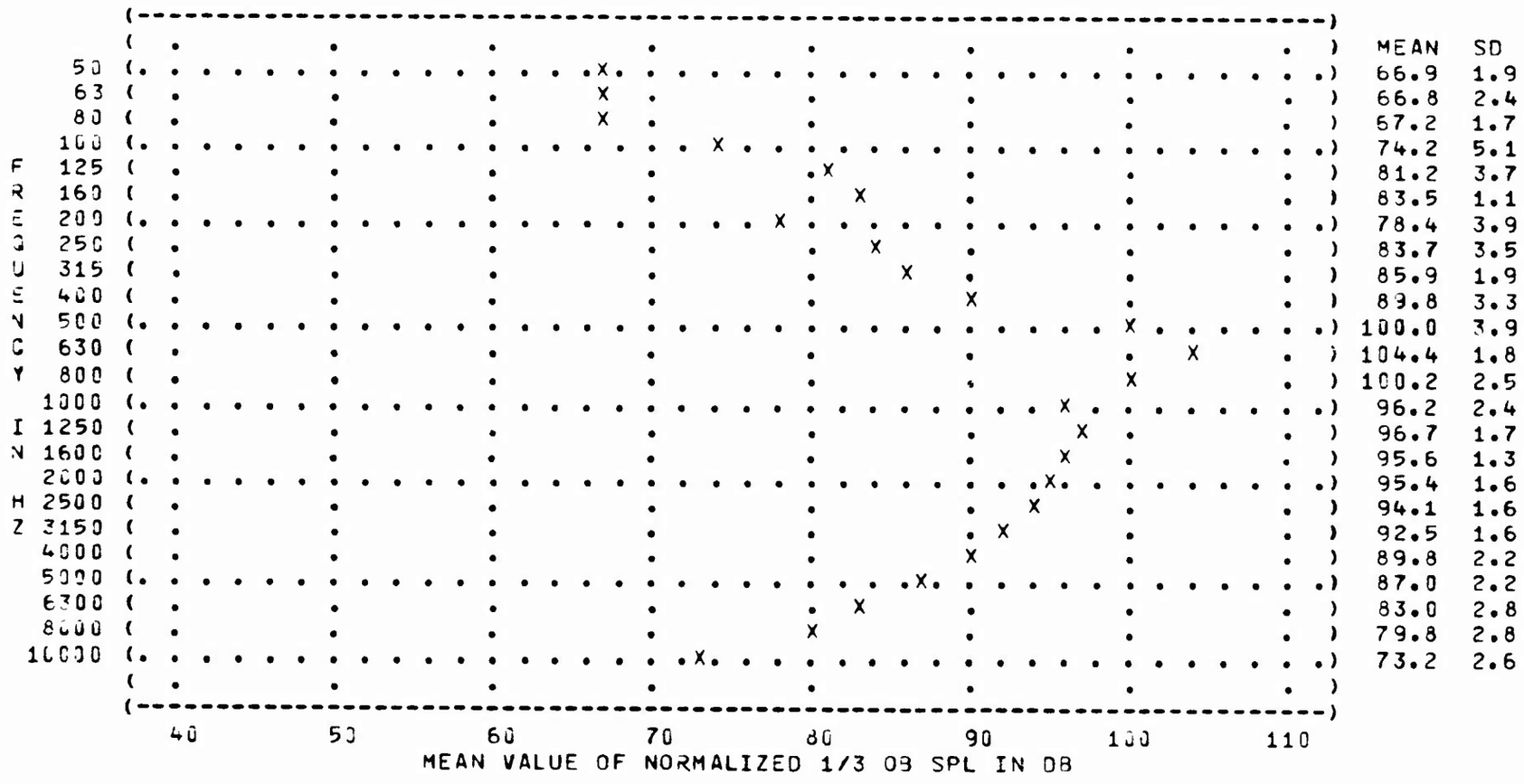
POWER SETTING	PAGE
TAKEOFF 96% RPM	5-13
CRUISE 85% RPM	14-22
APPROACH 82% RPM	23-31

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

- NORMALIZED MEAN SPL SPECTRUM AT PNLM
- NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
  - AIR-TO-GROUND PROPAGATION
    - SOUND PRESSURE LEVEL SPECTRA
    - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
  - GROUND-TO-GROUND PROPAGATION
    - SOUND PRESSURE LEVEL SPECTRA
    - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

11 DEC 75

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A-7 TAKEOFF POWER 96 % RPM

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 5

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-133-103-111275

PNLT = 119.5 PNDB
PNL = 117.7 PNDB
ALT = 109.4 DBA
AL = 107.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-7

OPERATION:
TAKEOFF POWER
96 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 133
OPS CODE: 103
PROFILE VER: A
11 DEC 75
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	81	81	81	88	95	96	93	98	100	104	115	119	116	112	113	112	113	113	113	113	111	112	115	118
250	79	79	79	86	93	96	91	96	98	102	113	117	113	110	111	110	111	110	110	110	109	109	112	114
315	77	77	77	84	91	94	89	94	96	100	111	115	111	108	109	108	108	108	108	107	106	106	108	110
400	75	75	75	82	89	92	87	92	94	98	109	113	109	105	106	106	106	106	105	104	103	102	104	105
500	73	73	73	80	87	90	85	90	92	96	107	111	107	103	104	103	104	103	102	101	99	98	99	99
630	71	71	71	78	85	88	83	88	90	94	104	109	105	101	102	101	101	100	99	98	96	94	94	92
800	69	69	69	76	83	86	80	86	88	92	102	107	103	99	99	98	98	97	96	94	92	89	87	83
1000	67	67	67	74	81	83	78	84	86	90	100	104	<100	96	97	96	95	94	92	90	87	83	80	73
1250	65	65	65	72	79	81	76	82	84	88	98	102	98	94	94	93	92	91	88	85	82	76	71	61
1600	63	63	63	70	77	79	74	79	82	85	95	100	95	91	91	90	89	87	84	79	75	68	60	46
2000	61	61	61	68	75	77	72	77	79	83	93	97	93	88	88	86	85	82	79	73	68	59	47	28
2500	59	59	59	66	73	75	70	75	77	81	90	94	90	85	85	82	81	77	73	65	60	47	32	6
3150	57	57	57	64	71	73	67	73	75	78	88	92	87	82	81	78	76	72	66	56	49	34	12	
4000	55	54	55	62	68	70	65	70	72	75	85	88	83	78	77	73	70	65	57	45	37	17		
5000	53	52	53	59	66	68	63	68	69	72	82	85	80	74	72	68	64	57	47	32	21			
6300	50	50	50	57	64	66	60	65	66	69	78	81	75	69	67	61	56	47	35	16	2			
8000	48	48	48	55	61	63	57	62	63	66	75	77	71	64	60	54	47	36	20					
10000	46	46	46	52	59	60	55	59	60	62	71	73	65	57	53	45	36	22	2					
12500	44	43	43	50	56	58	52	56	56	58	66	67	59	50	44	34	23	5						
16000	41	41	41	47	53	55	48	52	52	53	60	61	51	41	33	21	6							
20000	39	38	38	44	50	51	45	48	48	48	54	53	42	30	20	5								
25000	37	36	35	41	47	48	40	43	42	42	47	45	32	17	5									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
A-7

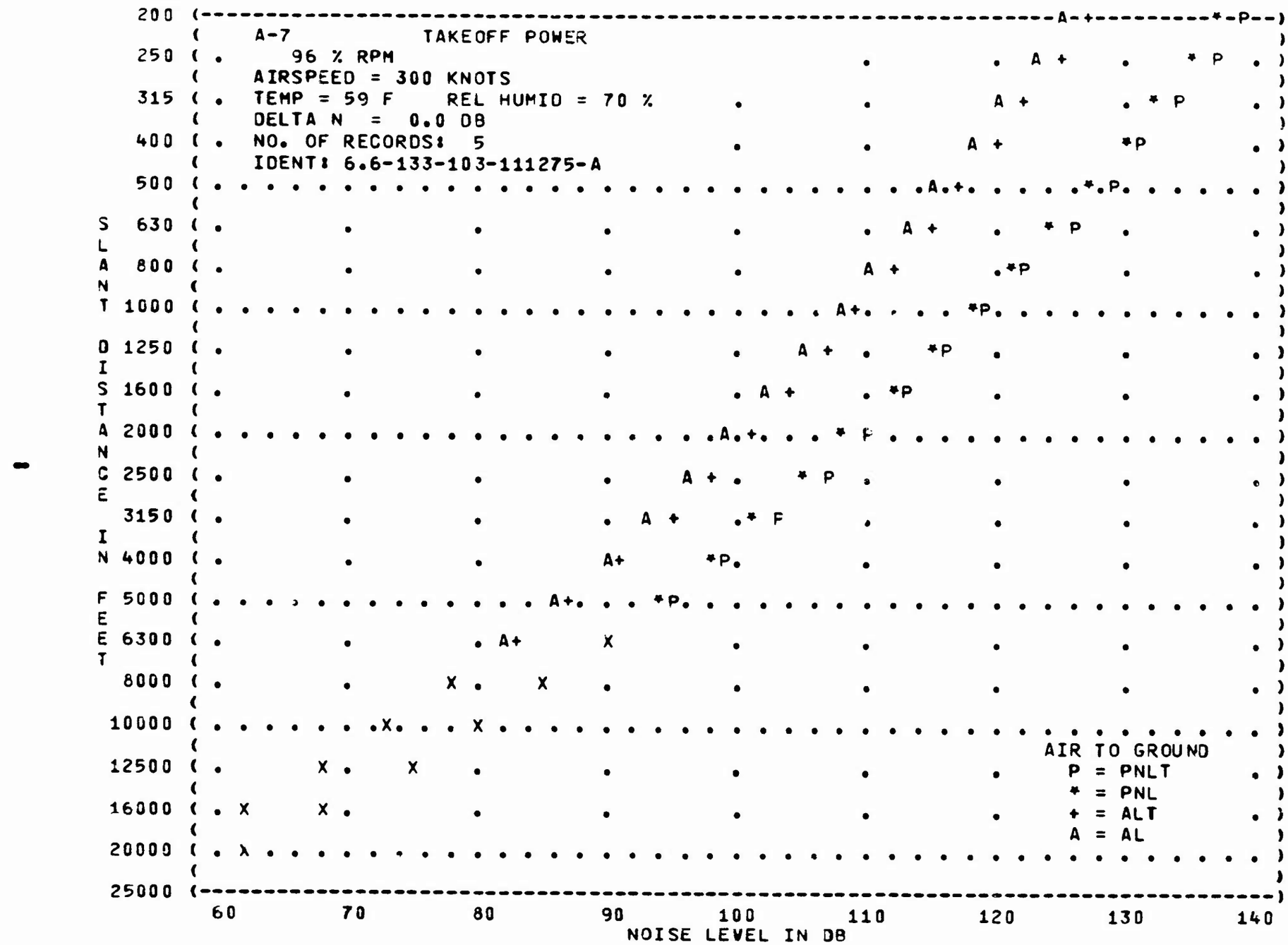
OPERATION:
TAKEOFF POWER
96 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 131
OPS CODE: 103
PROFILE VER: A
11 DEC 75
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	125.5	127.2	137.4	139.1	121.9	123.6	125.6
250	123.0	124.7	134.9	136.7	120.4	121.9	124.2
315	120.5	122.2	132.4	134.1	118.9	120.3	122.6
400	118.0	119.7	129.7	131.4	117.4	118.8	120.9
500	115.4	117.2	126.8	128.6	115.8	117.3	119.1
630	112.9	114.6	123.9	125.6	114.3	115.7	117.1
800	110.3	112.0	120.7	122.5	112.7	114.1	115.0
1000	107.7	109.4	117.7	119.5	111.1	112.5	113.0
1250	105.0	106.7	114.7	116.4	109.4	110.8	110.9
1600	102.2	103.9	111.5	113.3	107.6	109.0	108.8
2000	99.3	101.0	108.3	110.0	105.7	107.2	106.5
2500	96.3	98.0	104.9	106.6	103.7	105.2	104.1
3150	93.1	94.9	101.4	103.1	101.6	103.0	101.6
4000	89.8	91.2	97.7	99.1	99.2	100.4	98.6
5000	86.2	87.3	93.7	94.8	96.6	97.5	95.4
6300	82.3	83.0	89.6	90.3	93.7	94.3	91.9
8000	78.1	78.4	85.0	85.4	90.5	90.8	88.1
10000	73.3	73.3	80.1	80.1	86.7	86.7	83.9
12500	68.0	68.0	74.6	74.6	82.4	82.4	79.4
16000	62.0	62.0	68.5	68.5	77.4	77.4	74.3
20000	55.2	55.2	61.9	61.9	71.7	71.7	68.7
25000	47.7	47.7	54.5	54.5	65.1	65.1	62.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-7 TAKEOFF POWER
96 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 5
IDENT: 6.6-133-103-111275-A
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

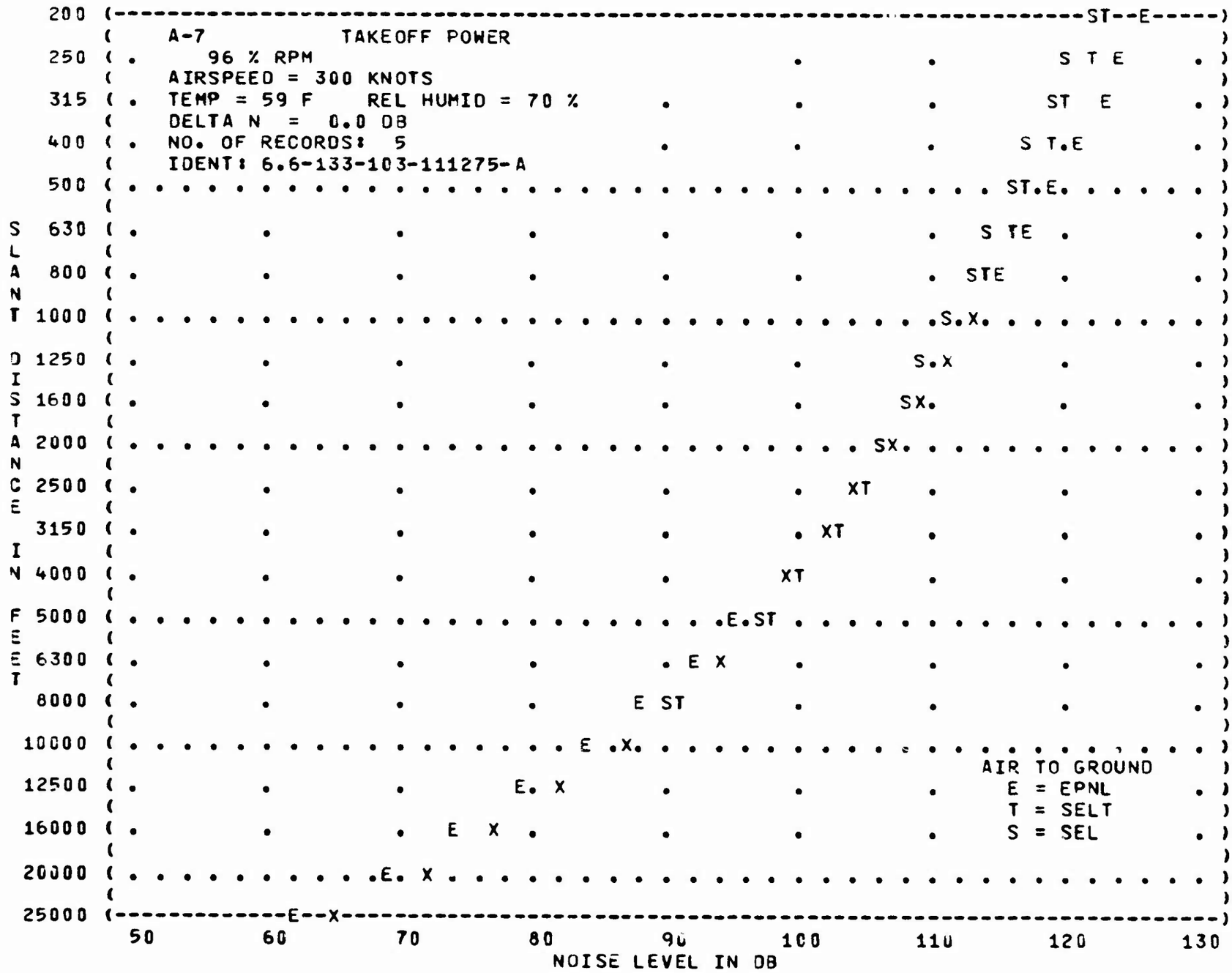

A-7 TAKEOFF POWER
96 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 5
IDENT: 6.6-133-103-111275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (OB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-7

OPERATION:
TAKEOFF POWER
96 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 133
OPS CODE: 103
PROFILE VER: A
11 DEC 75
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	76	76	76	83	90	93	88	93	95	99	110	114	111	107	108	107	108	108	108	108	106	107	110	113
250	74	74	74	81	88	91	86	91	93	97	108	112	108	105	106	105	106	105	105	105	104	104	107	109
315	72	72	72	79	86	89	84	89	91	95	106	110	106	103	104	103	103	103	103	102	101	101	103	105
400	70	70	70	77	84	86	81	87	89	93	104	108	104	100	101	101	101	101	100	99	98	97	99	100
500	68	68	68	75	82	84	79	85	87	91	102	106	102	98	99	98	99	98	97	96	94	93	94	94
630	66	66	66	73	80	81	76	82	85	89	99	104	100	96	97	96	96	95	94	93	91	89	89	87
800	64	64	64	71	77	79	74	79	83	87	97	102	98	94	94	93	93	92	91	89	87	84	82	78
1000	62	62	62	68	74	76	71	76	81	85	95	99<	95	91	92	91	90	89	87	85	82	78	75	68
1250	60	60	59	65	71	73	67	73	78	83	93	97	93	89	89	88	87	86	83	80	77	71	66	56
1600	58	57	56	61	67	69	64	70	74	80	90	95	90	86	86	85	84	82	79	74	70	63	55	41
2000	55	53	52	58	63	65	60	66	71	78	86	92	88	83	83	81	80	77	74	68	63	54	42	23
2500	51	49	48	53	59	61	56	61	67	74	85	89	85	80	80	77	76	72	68	60	55	42	27	1
3150	47	45	43	48	54	56	51	56	62	70	82	87	82	77	76	73	71	67	61	51	44	29	7	
4000	43	39	38	43	49	50	45	50	57	65	78	83	78	73	72	68	65	60	52	40	32	12		
5000	37	35	33	38	44	45	40	45	51	59	73	78	74	69	67	63	59	52	42	27	16			
6300	32	30	28	33	39	40	35	40	44	53	68	73	69	64	62	56	51	42	30	11				
8000	30	28	26	31	36	38	32	37	41	50	65	69	65	59	55	49	42	31	15					
10000	26	26	24	28	34	35	29	34	38	46	61	65	59	52	48	40	31	17						
12500	26	23	21	26	31	32	26	31	34	42	56	59	53	45	39	29	18	0						
16000	23	21	19	23	28	29	23	27	30	37	50	53	45	36	28	16	1							
20000	21	18	16	20	25	26	19	23	26	32	44	46	36	25	15									
25000	19	16	13	17	22	22	15	18	20	26	37	37	26	12										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
A-7

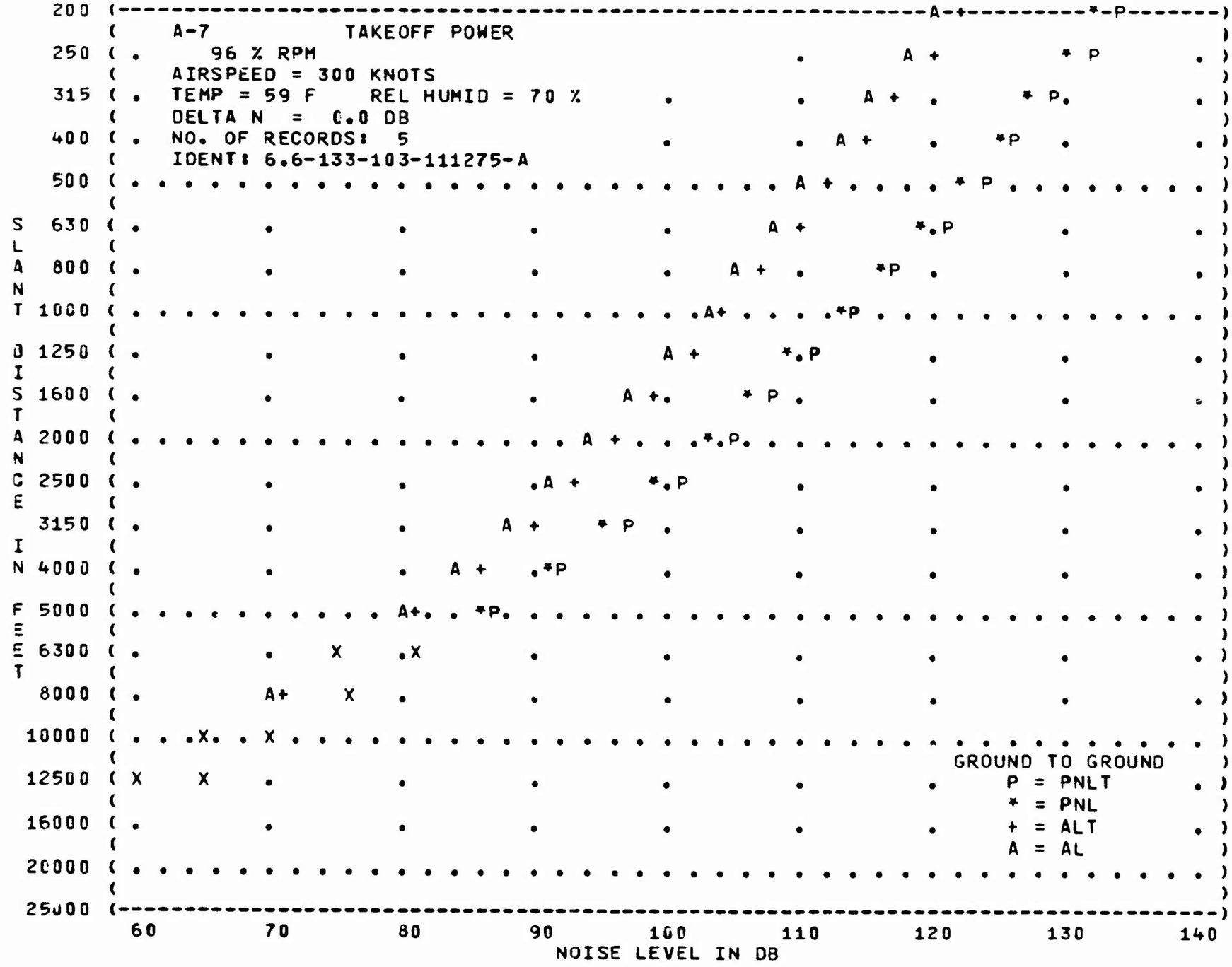
OPERATION:
TAKEOFF POWER
96 % RPM
AIRSPEED = 300 KNOTS

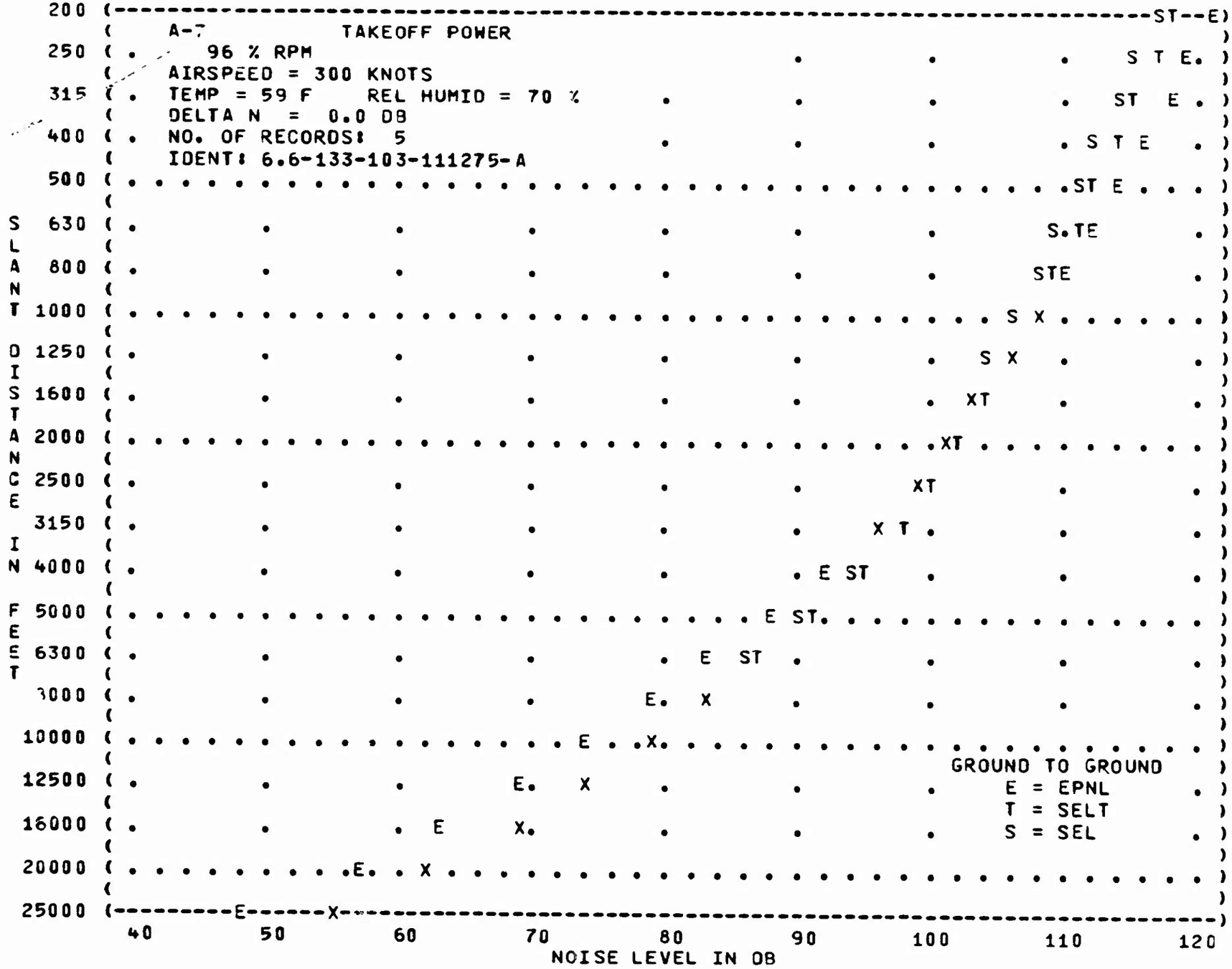
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

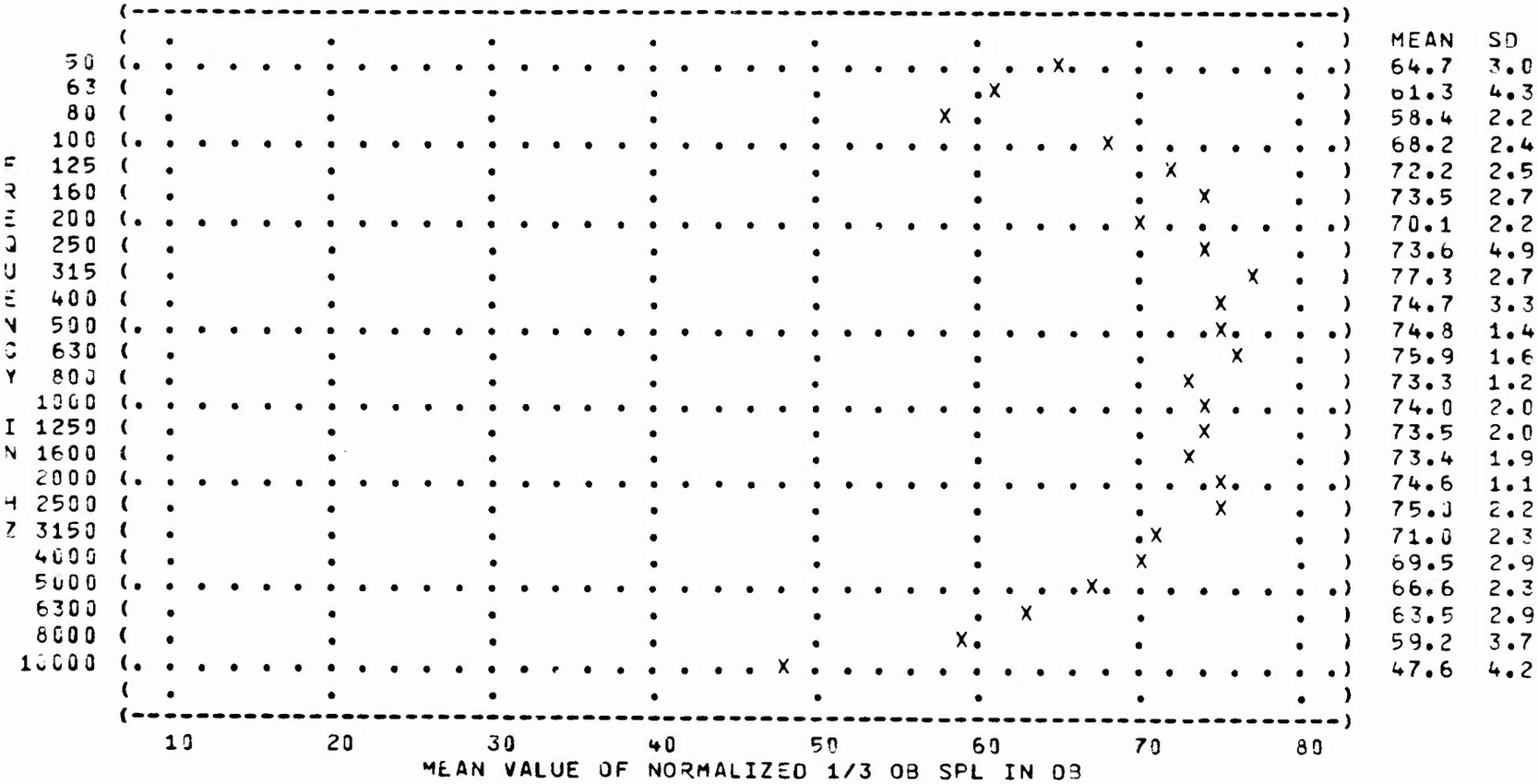
A/C CODE: 133
OPS CODE: 103
PROFILE VER: A
11 DEC 75
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	120.5	122.2	132.4	134.1	116.9	118.3	120.6
250	118.0	119.7	129.9	131.7	115.4	116.9	119.2
315	115.5	117.2	127.4	129.1	113.9	115.3	117.6
400	113.0	114.7	124.7	126.4	112.4	113.8	115.9
500	110.4	112.2	121.8	123.6	110.8	112.3	114.1
630	107.9	109.6	118.8	120.6	109.3	110.7	112.1
800	105.3	107.0	115.7	117.4	107.7	109.1	109.9
1000	102.6	104.4	112.6	114.3	106.1	107.5	107.8
1250	100.0	101.7	109.5	111.2	104.4	105.8	105.7
1600	97.2	98.9	106.2	108.0	102.6	104.0	103.5
2000	94.3	96.0	102.9	104.6	100.7	102.2	101.1
2500	91.3	93.0	99.3	101.0	98.7	100.1	98.5
3150	88.0	89.7	95.5	97.2	96.4	97.8	95.7
4000	84.1	85.5	91.0	92.4	93.6	94.7	92.0
5000	79.6	80.7	86.0	87.0	90.1	90.9	87.7
6300	74.7	75.4	80.6	81.3	86.1	86.7	83.0
8000	70.2	70.6	75.8	76.1	82.6	82.9	78.9
10000	65.2	65.2	70.5	70.5	78.6	78.6	74.3
12500	59.6	59.6	64.5	64.5	74.0	74.0	69.3
16000	53.3	53.3	57.6	57.6	68.7	68.7	63.4
20000	46.0	46.0	49.8	49.8	62.4	62.4	56.6
25000	37.6	37.6	40.0	40.0	55.0	55.0	47.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-7 TAKEOFF POWER
96 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 5
IDENT: 6.6-133-103-111275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


A-7 TAKEOFF POWER
96 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 5
IDENT: 6.6-133-103-111275-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



A-7 CRUISE POWER 85 % RPM

AIRSPEED = 301 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 6

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-133-104-111275

PNLT = 98.2 PNDB
PNL = 97.7 PNDB
ALT = 85.0 DBA
AL = 84.5 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-7

OPERATION:
CRUISE POWER
85 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 133
OPS CODE: 104
PROFILE VER: A
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SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	79	75	72	82	86	88	84	88	92	89	89	91	88	89	89	89	91	92	89	90	88	88	88	84
250	77	73	70	80	84	86	82	86	90	87	87	89	86	87	87	87	89	90	87	87	85	85	85	80
315	75	71	68	78	82	84	80	84	88	85	85	87	84	85	85	85	87	88	85	85	83	82	82	77
400	73	69	66	76	80	82	78	82	86	83	83	84	82	83	83	83	84	85	82	82	80	79	79	72
500	71	67	64	74	78	80	76	80	83	81	81	82	80	81	80	81	82	83	80	79	77	76	75	67
630	69	65	62	72	76	78	74	78	81	79	79	80	78	79	78	78	80	80	77	76	74	72	70	62
800	67	63	60	70	74	76	72	76	79	77	77	78	76	76	76	76	77	78	74	73	70	68	65	55
1000	65	61	58	68	72	74	70	74	77<	75	75	76	73	74	74	73	75	75	71	70	67	63	59	48
1250	63	59	56	66	70	71	68	72	75	73	73	74	71	72	71	71	72	72	68	65	62	58	52	38
1600	61	57	54	64	68	69	66	69	73	70	70	71	69	69	68	68	69	69	64	61	57	52	44	27
2000	59	55	52	62	66	67	64	67	71	68	68	69	66	67	66	65	66	65	59	56	51	45	34	14
2500	57	53	50	60	64	65	62	65	69	66	66	66	63	64	63	62	62	61	55	50	45	36	23	
3150	55	51	48	58	62	63	59	63	66	63	63	64	61	61	59	58	58	56	49	43	37	25	8	
4000	52	49	46	56	60	61	57	61	64	61	61	61	58	58	56	54	53	51	42	34	27	13		
5000	50	47	44	54	57	59	55	58	61	58	58	58	54	54	52	50	48	45	35	24	16			
6300	48	45	42	51	55	56	53	56	59	56	55	55	51	50	48	44	42	37	26	12	2			
8000	46	43	40	49	53	54	50	53	56	53	52	51	47	46	42	38	35	29	14					
10000	44	41	37	47	51	51	47	50	53	49	48	47	43	41	37	31	27	18	1					
12500	42	38	35	44	48	49	45	47	50	46	44	43	37	35	30	23	17	5						
16000	40	36	33	42	45	46	42	44	46	42	41	38	32	28	22	13	4							
20000	37	34	30	39	43	43	38	41	43	38	35	32	25	20	12	1								
25000	35	31	28	37	40	40	35	37	38	32	29	25	17	10	0									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-7

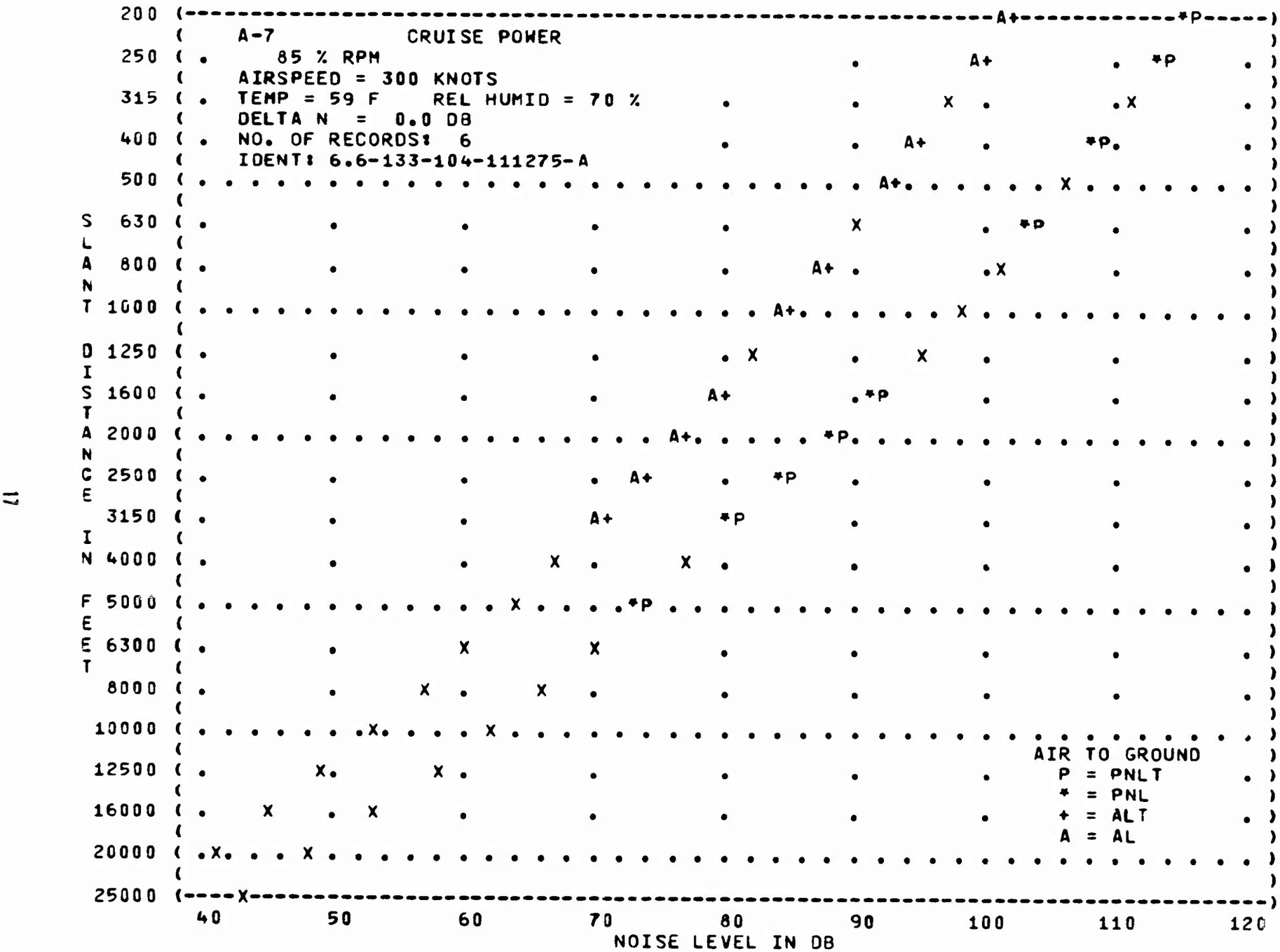
OPERATION:
CRUISE POWER
85 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 133
OPS CODE: 104
PROFILE VER: A
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	101.3	101.8	115.3	115.8	99.5	100.7	104.3
250	99.1	99.6	113.1	113.6	98.3	99.4	103.1
315	96.8	97.3	110.7	111.2	97.0	98.1	101.7
400	94.4	95.0	108.3	108.9	95.6	96.8	100.4
500	92.0	92.6	105.9	106.4	94.2	95.4	98.9
630	89.6	90.1	103.3	103.8	92.8	93.9	97.3
800	87.1	87.6	100.6	101.1	91.3	92.4	95.6
1000	84.5	85.0	97.7	98.2	89.6	90.8	93.7
1250	81.8	82.3	94.7	95.2	88.0	89.1	91.7
1600	79.0	79.5	91.4	92.0	86.2	87.3	89.4
2000	76.1	76.6	88.0	88.5	84.3	85.5	87.0
2500	73.2	73.7	84.3	84.9	82.3	83.5	84.4
3150	70.1	70.6	80.4	80.9	80.3	81.4	81.4
4000	66.9	67.3	76.7	77.1	78.1	79.0	78.5
5000	63.6	63.9	73.2	73.5	75.8	76.5	75.8
6300	60.3	60.5	69.6	69.8	73.5	73.9	72.9
8000	56.7	56.9	65.9	66.0	70.9	71.2	70.0
10000	53.1	53.1	61.9	61.9	68.3	68.3	66.8
12500	49.2	49.2	57.8	57.8	65.4	65.4	63.7
16000	45.2	45.2	53.3	53.3	62.4	62.4	60.2
20000	40.9	40.9	48.4	48.4	59.1	59.1	56.2
25000	36.3	36.3	42.8	42.8	55.5	55.5	51.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-7 CRUISE POWER
85 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 6
IDENT: 6.6-133-104-111275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

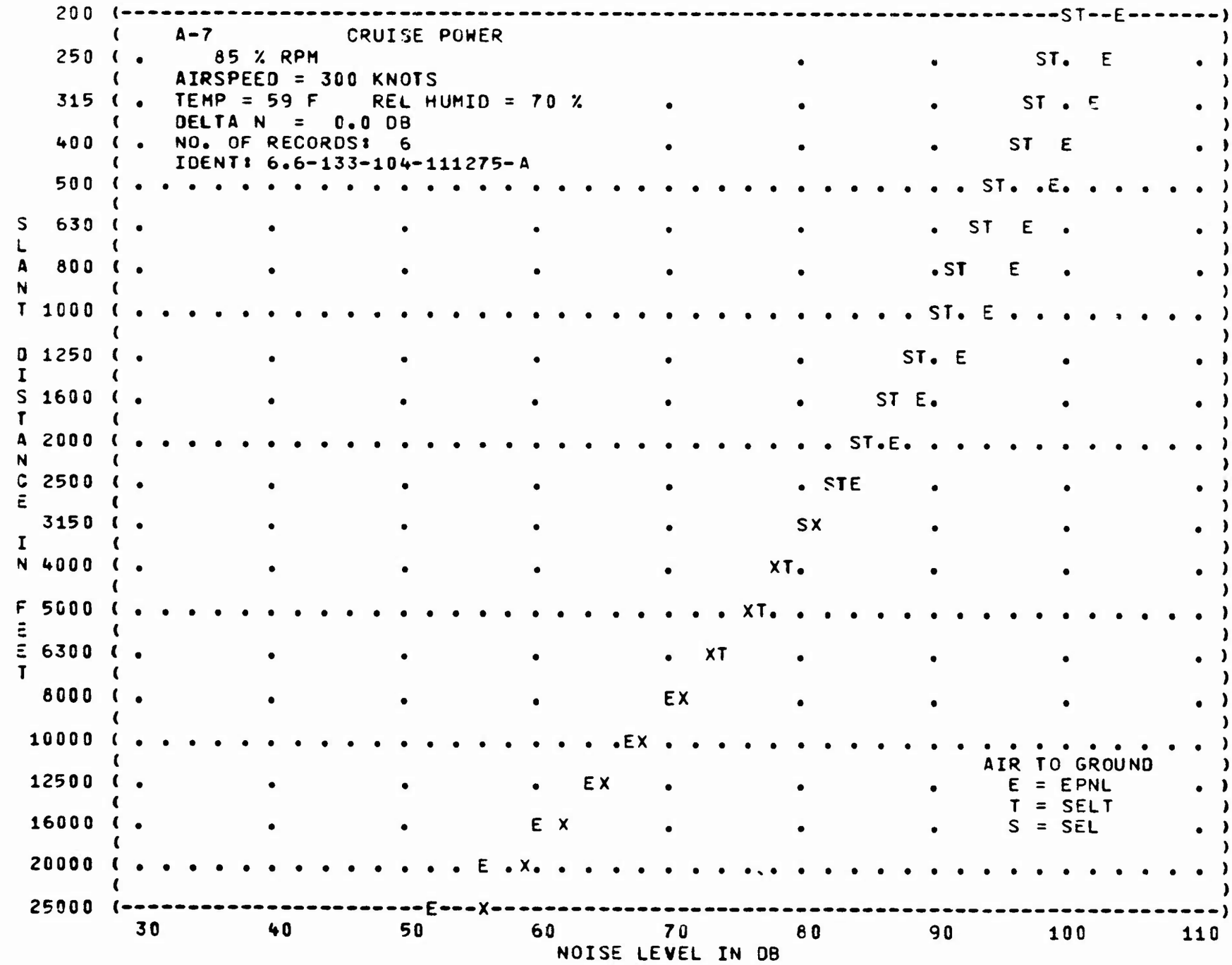

A-7 CRUISE POWER
85 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 6
IDENT: 6.6-133-104-111275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
A-7

OPERATION:
CRUISE POWER
85 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 133
OPS CODE: 104
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SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	74	70	67	77	81	83	79	83	87	84	84	86	83	84	84	84	86	87	84	85	83	83	83	79
250	72	68	65	75	79	81	77	81	85	82	82	84	81	82	82	82	84	85	82	82	80	80	80	75
315	70	66	63	73	77	79	75	79	83	80	80	82	79	80	80	80	82	83	80	80	78	77	77	72
400	68	64	61	71	75	76	73	77	81	78	78	79	77	78	78	78	79	80	77	77	75	74	74	67
500	66	62	59	69	73	74	71	75	79	76	76	77	75	76	75	76	77	78	75	74	72	71	70	62
630	64	60	57	67	71	71	68	72	76	74	74	75	73	74	73	73	75	75	72	71	69	67	65	57
800	62	58	55	65	68	69	65	69	74	72	72	73	71	71	71	71	72	73	69	68	65	63	60	50
1000	60	56	53	62	65	66	62	66	72<	70	70	71	68	69	69	68	70	70	66	65	62	58	54	43
1250	58	54	50	59	62	63	59	63	69	68	68	69	66	67	66	66	67	67	63	60	57	53	47	33
1600	56	51	47	55	58	59	56	60	66	65	65	66	64	64	63	63	64	64	59	56	52	47	39	22
2000	53	48	43	52	55	55	52	56	62	63	63	64	61	62	61	60	61	60	54	51	46	40	29	9
2500	49	44	39	47	50	51	47	51	58	59	61	61	58	59	58	57	57	56	50	45	40	31	18	
3150	45	39	34	42	45	46	43	46	54	55	57	59	56	56	54	53	53	51	44	38	32	20	3	
4000	41	34	29	37	40	40	37	41	49	51	53	55	53	53	51	49	48	46	37	29	22	8		
5000	35	29	24	32	35	36	32	36	43	45	49	51	49	49	47	45	43	40	30	19	11			
6300	30	25	20	27	30	31	27	31	37	40	45	47	45	45	43	39	37	32	21	7				
8000	28	23	18	25	28	28	25	28	34	37	42	43	41	41	37	33	30	24	9					
10000	26	21	15	23	26	26	22	25	31	33	38	39	37	36	32	26	22	13						
12500	24	18	13	20	23	23	19	22	28	30	34	35	31	30	25	18	12	0						
16000	22	16	11	18	20	21	16	19	24	26	30	30	26	23	17	8								
20000	19	14	8	15	18	18	13	16	21	22	25	24	19	15	7									
25000	17	11	6	13	15	14	9	12	16	16	19	17	11	5										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
A-7

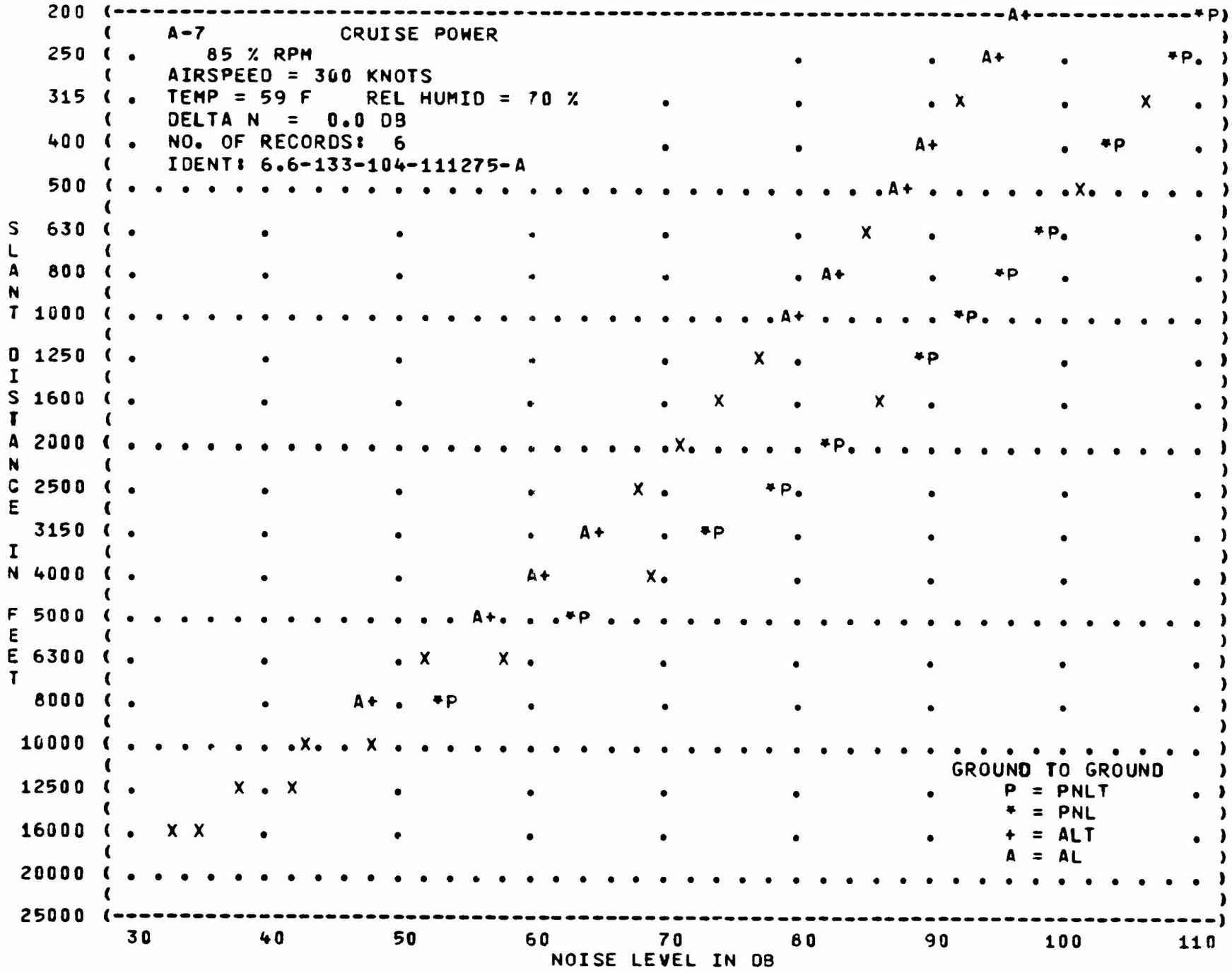
OPERATION:
CRUISE POWER
85 % RPM
AIRSPEED = 300 KNOTS

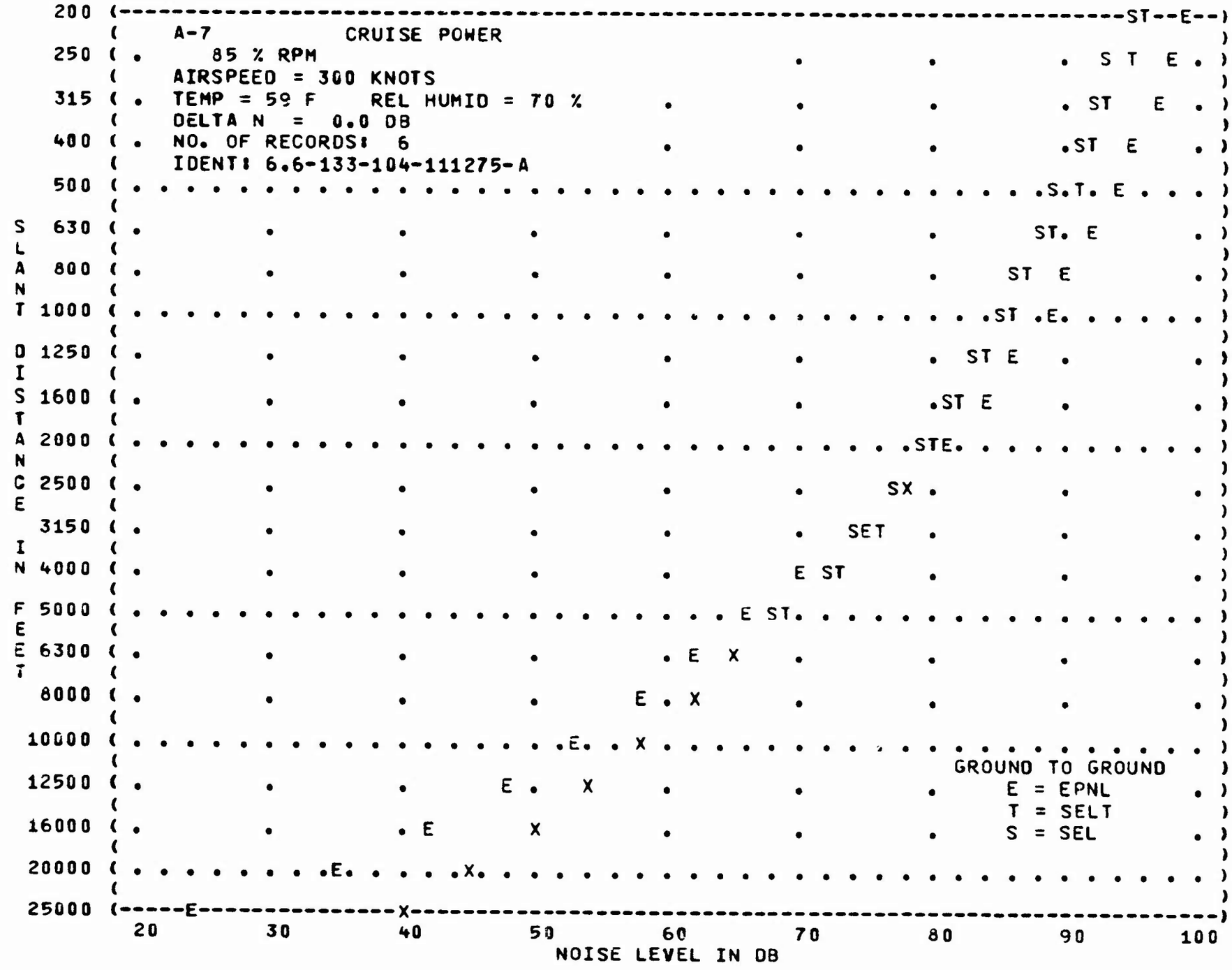
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

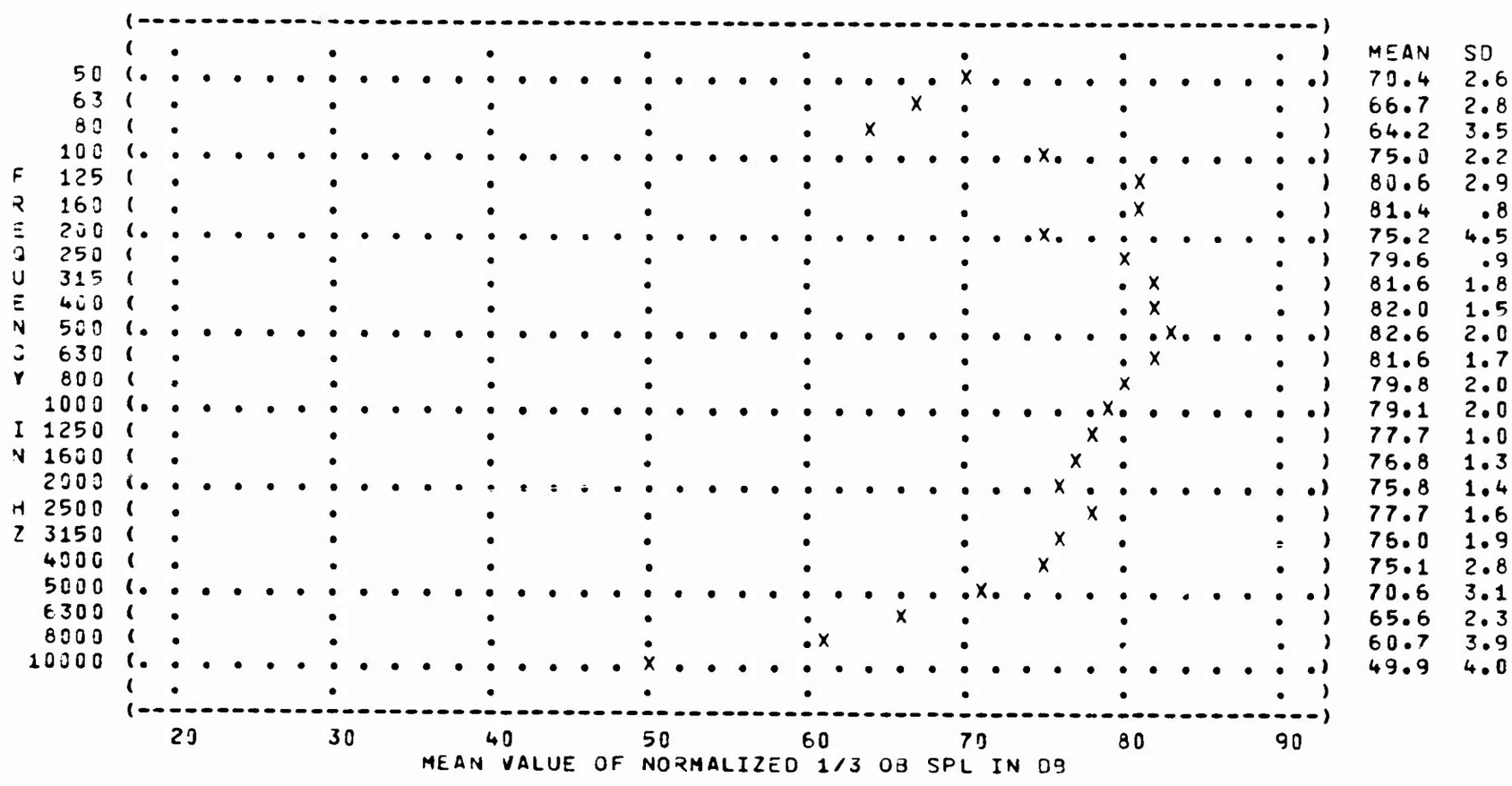
A/C CODE: 133
OPS CODE: 104
PROFILE VER: A
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	96.3	97.0	110.3	110.9	94.5	95.8	99.4
250	94.1	94.7	108.0	108.7	93.3	94.5	98.2
315	91.8	92.4	105.7	106.3	92.0	93.2	96.8
400	89.4	90.1	103.3	103.9	90.6	91.9	95.4
500	87.0	87.7	100.8	101.4	89.2	90.5	93.9
630	84.6	85.2	98.1	98.8	87.8	89.0	92.3
800	82.0	82.7	95.4	96.0	86.2	87.5	90.5
1000	79.4	80.0	92.4	93.0	84.6	85.9	88.5
1250	76.7	77.3	89.2	89.8	82.9	84.1	86.3
1600	73.8	74.4	85.8	86.4	81.0	82.3	83.9
2000	70.8	71.5	82.1	82.7	79.0	80.3	81.2
2500	67.7	68.3	78.0	78.7	76.9	78.1	78.2
3150	64.2	64.9	73.5	74.1	74.4	75.7	74.6
4000	60.5	61.0	68.6	69.1	71.7	72.7	70.5
5000	56.3	56.6	63.4	63.8	68.5	69.2	66.0
6300	51.7	52.0	58.1	58.4	64.9	65.4	61.5
8000	47.5	47.6	53.5	53.6	61.7	61.9	57.6
10000	42.9	42.9	48.0	48.0	58.1	58.1	52.9
12500	38.0	38.0	41.9	41.9	54.2	54.2	47.8
16000	32.7	32.7	34.7	34.7	49.9	49.9	41.6
20000	26.9	26.9	26.8	26.8	45.1	45.1	34.6
25000	20.5	20.5	14.8	14.8	39.7	39.7	23.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-7 CRUISE POWER
85 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 6
IDENT: 6.6-133-104-111275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


A-7 CRUISE POWER
85 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 6
IDENT: 6.6-133-104-111275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



A-7 APPROACH POWER 82 % RPM

AIRSPEED = 160 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 5

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-133-105-111275

PNLT = 102.5 PNDB
PNL = 101.9 PNDB
ALT = 89.7 DBA
AL = 89.1 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-7

OPERATION:
APPROACH POWER
82 % RPM
AIRSPEED = 160 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 133
OPS CODE: 105
PROFILE VER: A
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SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	84	81	78	89	95	96	89	94	96	96	97	96	95	94	93	93	92	95	94	95	92	90	90	86
250	82	79	76	87	93	94	87	92	94	94	95	94	93	92	91	91	90	93	92	93	89	87	87	82
315	80	77	74	85	91	92	85	90	92	92	93	92	91	90	89	88	88	90	90	90	87	84	83	79
400	78	75	72	83	89	90	83	88	90	90	91	90	88	88	87	86	86	88	87	88	84	81	80	74
500	76	73	70	81	87	88	81	86	88	88	89	88	86	86	85	84	83	86	85	85	81	78	76	70
630	74	71	68	79	85	85	79	84	86	86	87	86	84	84	82	82	81	83	82	82	78	74	72	64
800	72	69	66	77	83	83	77	82	84	84	85	84	82	81	80	79	78	81	79	79	74	70	66	58
1000	70	67	64	75	81	81<	75	80	82	82	83	82	80	79	78	77	76	78	76	75	71	66	61	50
1250	68	65	62	73	79	79	73	78	80	80	80	79	77	77	75	74	73	75	73	71	66	60	54	41
1600	66	63	60	71	77	77	71	75	77	78	78	77	75	74	73	71	70	71	69	67	61	54	46	30
2000	64	61	58	69	74	75	69	73	75	75	76	75	73	72	70	68	67	68	65	61	56	47	36	17
2500	62	59	56	67	72	73	67	71	73	73	74	72	70	69	67	65	63	64	60	55	49	38	25	1
3150	60	57	54	65	70	71	65	69	71	71	71	70	67	66	64	62	59	59	54	49	41	28	10	
4000	58	54	52	63	68	69	62	67	68	68	68	67	64	63	60	58	55	54	48	40	32	15		
5000	56	52	50	60	66	66	60	64	66	66	66	64	61	59	56	53	50	47	40	30	20	0		
6300	54	50	48	58	64	64	58	62	63	63	63	61	58	55	52	48	44	40	31	18	7			
8000	52	48	45	56	61	62	55	59	61	60	60	57	54	51	47	42	37	32	20	4				
10000	50	46	43	54	59	59	53	56	58	57	56	53	49	46	41	35	28	21	7					
12500	48	44	41	51	57	57	50	53	54	53	52	49	44	40	34	27	18	9						
16000	45	41	39	49	54	54	47	50	51	49	48	44	38	33	26	17	6							
20000	43	39	36	46	51	51	44	47	47	45	43	38	32	25	16	5								
25000	41	37	34	44	48	48	40	43	43	40	37	31	23	16	5									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-7

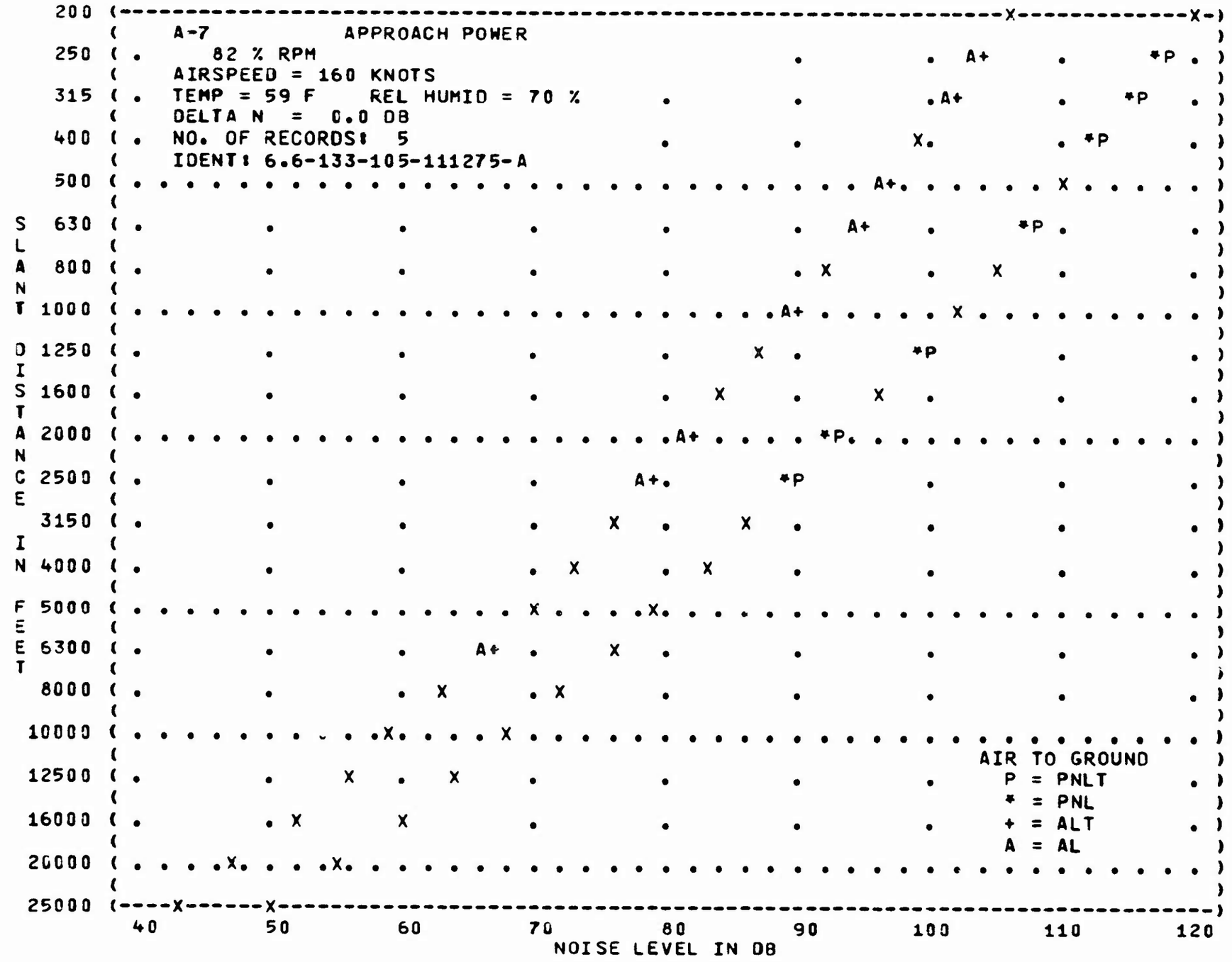
OPERATION:
APPROACH POWER
82 % RPM
AIRSPEED = 160 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 133
OPS CODE: 105
PROFILE VER: A
11 DEC 75
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	105.6	106.1	119.6	120.2	105.3	106.4	110.3
250	103.3	103.9	117.3	117.9	104.1	105.2	109.0
315	101.1	101.7	114.9	115.5	102.9	103.9	107.6
400	98.8	99.4	112.5	113.1	101.6	102.6	106.2
500	96.5	97.1	109.9	110.5	100.2	101.3	104.6
630	94.1	94.7	107.3	107.9	98.8	99.9	103.0
800	91.6	92.2	104.7	105.2	97.4	98.5	101.4
1000	89.1	89.7	101.9	102.5	95.9	96.9	99.6
1250	86.6	87.1	98.9	99.5	94.3	95.4	97.6
1600	83.9	84.5	95.8	96.4	92.7	93.7	95.5
2000	81.2	81.8	92.5	93.1	91.0	92.0	93.2
2500	78.4	79.0	89.0	89.6	89.2	90.2	90.7
3150	75.6	76.1	85.8	86.4	87.3	88.4	88.5
4000	72.6	73.1	82.5	83.0	85.4	86.2	86.0
5000	69.5	69.9	79.1	79.5	83.3	83.9	83.4
6300	66.3	66.6	75.7	75.9	81.1	81.5	80.7
8000	63.0	63.1	72.0	72.1	78.7	78.9	77.9
10000	59.4	59.4	68.2	68.2	76.2	76.2	74.9
12500	55.6	55.6	64.1	64.1	73.4	73.4	71.7
16000	51.6	51.6	59.6	59.6	70.4	70.4	68.2
20000	47.4	47.4	55.0	55.0	67.1	67.1	64.6
25000	42.8	42.8	49.8	49.8	63.6	63.6	60.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-7 APPROACH POWER
82 % RPM
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 5
IDENT: 6.6-133-105-111275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

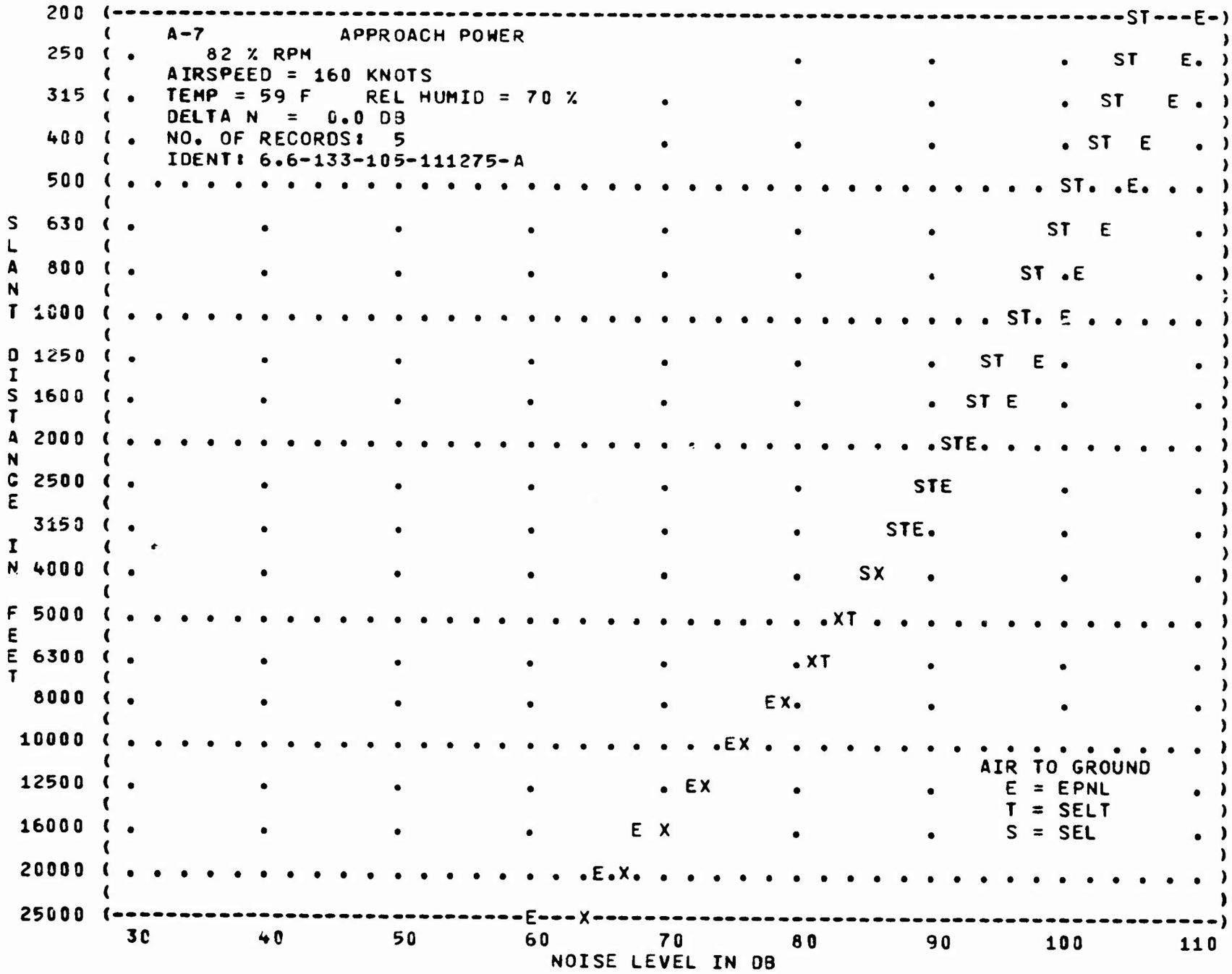

A-7 APPROACH POWER
82 % RPM
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 5
IDENT: 6.6-133-105-111275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-7

OPERATION:
APPROACH POWER
82 % RPM
AIRSPEED = 160 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 133
OPS CODE: 105
PROFILE VER: A
11 DEC 75
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	79	76	73	84	90	91	84	89	91	91	92	91	90	89	88	88	87	90	89	90	87	85	85	81
250	77	74	71	82	88	89	82	87	89	89	90	89	88	87	86	86	85	88	87	88	84	82	82	77
315	75	72	69	80	86	87	80	85	87	87	88	87	86	85	84	83	83	85	85	85	82	79	78	74
400	73	70	67	78	84	84	78	83	85	85	86	85	83	83	82	81	81	83	82	83	79	76	75	69
500	71	68	65	76	82	82	76	81	83	83	84	83	81	81	80	79	78	81	80	80	76	73	71	65
630	69	66	63	74	79	79	73	78	81	81	82	81	79	79	77	77	76	78	77	77	73	69	67	59
800	67	64	61	72	76	77	70	75	79	79	80	79	77	76	75	74	73	76	74	74	69	65	61	53
1000	65	62	59	69	73	74<	67	72	76	77	78	77	75	74	73	72	71	73	71	70	66	61	56	45
1250	63	60	56	66	70	70	64	69	74	75	75	74	72	72	70	69	68	70	68	66	61	55	49	36
1600	61	57	53	62	67	67	61	66	70	73	73	72	70	69	68	66	65	66	64	62	56	49	41	25
2000	58	53	49	58	63	63	57	62	67	70	71	70	68	67	65	63	62	63	60	56	51	42	31	12
2500	55	49	45	54	59	59	53	57	63	67	68	67	65	64	62	60	58	59	55	50	44	33	20	
3150	51	45	40	49	54	54	48	52	58	63	65	65	62	61	59	57	54	54	49	44	36	23	5	
4000	46	40	35	44	48	48	42	47	53	58	61	61	59	58	55	53	50	49	43	35	27	10		
5000	41	35	30	39	43	43	37	42	47	52	57	57	56	54	51	48	45	42	35	25	15			
6300	36	30	26	34	39	39	32	37	41	47	53	53	52	50	47	43	39	35	26	13	2			
8000	34	28	23	32	36	36	30	34	39	44	50	49	48	46	42	37	32	27	15					
10000	32	26	21	30	34	34	27	31	36	41	46	45	43	41	36	30	23	16	2					
12500	30	24	19	27	32	31	24	29	32	37	42	41	38	35	29	22	13	4						
16000	27	21	17	25	29	28	21	25	29	33	38	36	32	28	21	12	1							
20000	25	19	14	22	26	26	18	22	25	29	33	30	26	20	11	0								
25000	23	17	12	20	23	22	15	18	21	24	27	23	17	11										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: A-7

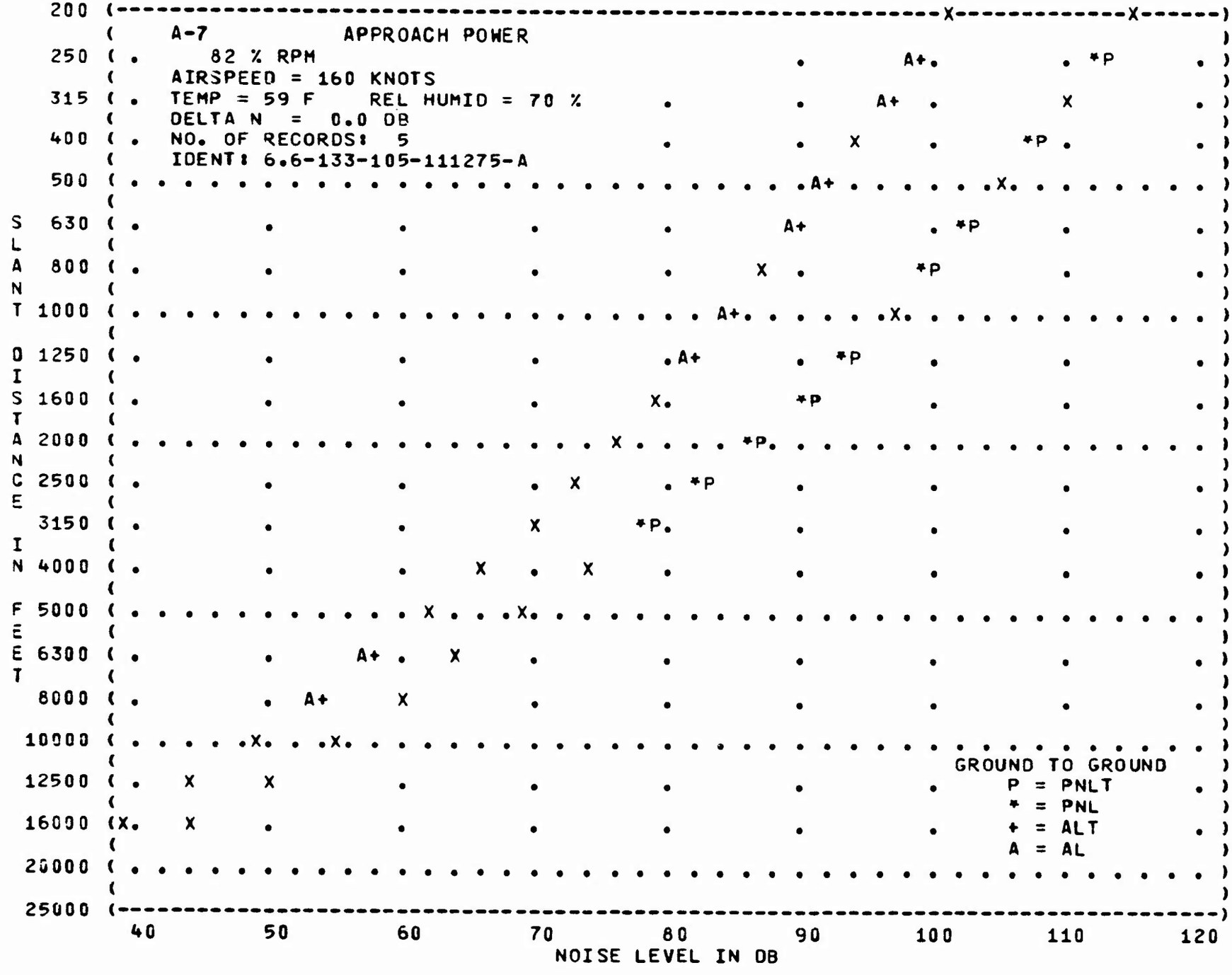
OPERATION: APPROACH POWER, 82 % RPM, AIRSPEED = 160 KNOTS

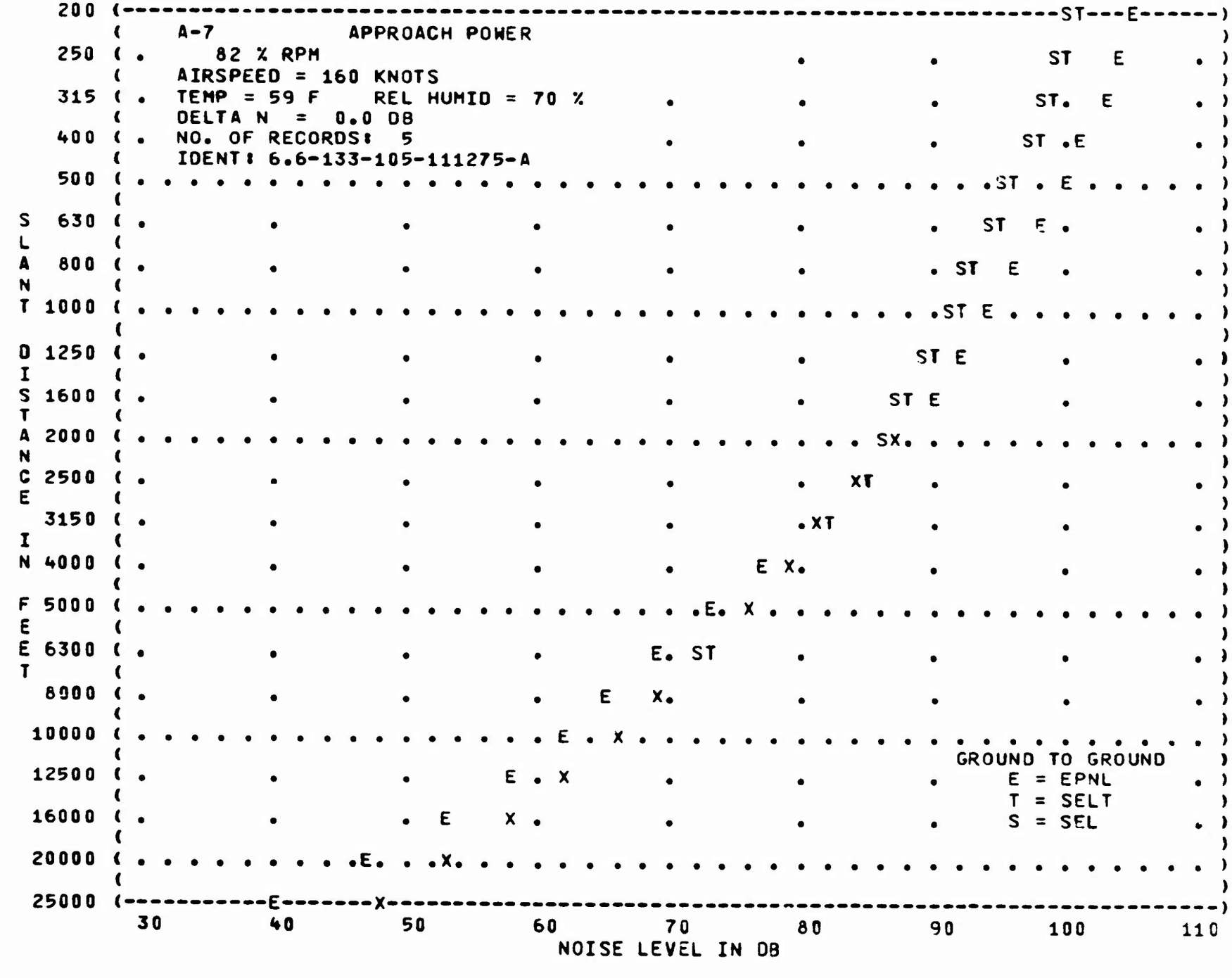
METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 133
OPS CODE: 105
PROFILE VER: A
11 DEC 75
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	100.6	101.1	114.6	115.1	100.3	101.3	105.3
250	98.3	98.9	112.3	112.8	99.1	100.1	104.0
315	96.1	96.6	109.9	110.5	97.9	98.9	102.6
400	93.8	94.4	107.5	108.0	96.6	97.6	101.1
500	91.5	92.0	104.9	105.4	95.2	96.2	99.5
630	89.1	89.6	102.2	102.7	93.8	94.8	97.9
800	86.6	87.1	99.5	100.0	92.4	93.4	96.1
1000	84.1	84.6	96.5	97.1	90.8	91.8	94.2
1250	81.4	82.0	93.4	94.0	89.2	90.2	92.1
1600	78.7	79.2	90.1	90.6	87.5	88.5	89.7
2000	75.9	76.4	86.4	87.0	85.7	86.7	87.1
2500	72.9	73.4	82.4	83.0	83.6	84.6	84.1
3150	69.6	70.1	78.3	78.9	81.3	82.3	81.0
4000	65.9	66.3	73.8	74.3	78.7	79.5	77.3
5000	61.8	62.1	69.0	69.3	75.6	76.2	73.2
6300	57.4	57.6	63.9	64.1	72.2	72.6	68.9
8000	53.4	53.5	59.6	59.7	69.2	69.4	65.4
10000	49.1	49.1	55.0	55.0	65.9	65.9	61.6
12500	44.5	44.5	49.9	49.9	62.2	62.2	57.5
16000	39.3	39.3	44.0	44.0	58.1	58.1	52.6
20000	33.7	33.7	37.0	37.0	53.5	53.5	46.6
25000	27.6	27.6	29.0	29.0	48.3	48.3	39.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-7 APPROACH POWER
82 % RPM
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 5
IDENT: 6.6-133-105-111275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


A-7 APPROACH POWER
82 % RPM
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 5
IDENT: 6.6-133-105-111275-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

USAF A-7E AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

A-7E AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-004-012
AIRCRAFT CODE: 133
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
55% RPM, 1200 LBS/HR	33-38
70% RPM, 1550 LBS/HR	39-44
85% RPM, 3700 LBS/HR	45-50
INTERMEDIATE (MIL) 94% RPM, 9000 LBS/HR	51-56
MAX PWR 99.5% RPM, 8200 LBS/HR	57-62

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 01
AIRCRAFT CODE 133
OPERATION CODE 01013
PROFILE VERSION A
04 NOV 75
PAGE C1

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
IDLE, 55% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	67	67	71	70	69	64	69	71	65	72	74	72	73	77	77	78	76	66	56
63	67	69	71	71	67	69	72	68	70	71	73	74	76	76	78	79	76	66	56
80	66	67	69	68	65	69	65	66	66	70	71	75	75	77	79	78	75	65	55
100	68	68	69	69	68	68	68	67	70	72	73	75	77	78	78	78	75	65	55
125	73	71	68	72	69	72	70	71	70	72	76	78	80	80	83	82	78	68	58
160	72	71	64	72	68	66	66	68	68	71	75	76	77	77	80	78	75	65	55
200	70	71	66	70	68	68	66	69	69	73	78	79	80	79	80	80	76	66	56
250	66	66	70	69	65	67	67	68	69	73	76	79	81	80	78	79	75	65	55
315	67	67	70	69	65	66	63	64	64	68	73	75	78	78	76	75	72	62	52
400	68	68	69	69	67	65	62	64	64	69	73	76	79	77	77	72	72	62	52
500	69	69	69	72	68	65	64	60	66	70	76	79	82	81	77	74	74	64	54
630	72	73	73	72	69	66	64	64	65	69	74	78	83	78	74	72	72	62	52
800	71	72	71	70	69	65	63	63	64	68	74	76	78	76	73	69	69	59	49
1000	75	74	74	75	74	71	65	63	63	67	73	75	78	74	72	68	70	60	50
1250	89	87	89	92	91	88	82	78	75	73	77	79	80	77	73	69	71	61	51
1600	77	76	76	77	76	72	67	66	66	71	76	76	76	73	72	67	70	60	50
2000	80	79	78	81	77	77	69	68	66	69	75	74	75	70	70	67	69	59	49
2500	81	81	81	83	80	77	70	68	65	69	76	76	77	74	70	69	69	59	49
3150	77	77	77	77	78	75	70	65	63	69	77	76	79	73	69	67	66	56	46
4000	77	78	79	78	80	76	72	68	66	72	77	76	78	73	71	66	67	57	47
5000	80	81	80	80	77	76	70	65	62	67	75	74	76	72	69	65	64	54	44
6300	78	79	79	78	78	74	71	65	61	65	72	72	74	70	69	64	62	52	42
8000	76	78	76	75	76	74	69	64	59	64	72	72	75	72	70	65	62	52	42
10000	74	74	73	72	71	69	63	58	56	62	69	68	69	66	64	59	57	47	37
OVERALL	92	91	92	94	92	90	85	83	81	84	89	90	92	90	90	89	87	77	67

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
IDLE, 55% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 01
AIRCRAFT CODE 133
OPERATION CODE 01013
PROFILE VERSION A
04 NOV 75
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	105.7	105.6	105.8	107.1	105.8	103.4	98.3	95.6	93.6	97.9	103.8	103.9	105.9	102.5	100.7	97.9	97.3	87.0	76.7
250	103.5	103.2	103.5	104.9	103.6	101.2	96.1	93.4	91.3	95.6	101.5	101.6	103.6	100.2	98.4	95.7	95.0	84.7	74.3
315	101.2	100.8	101.2	102.6	101.3	98.9	93.8	91.1	89.0	93.2	99.1	99.2	101.3	97.8	96.0	93.4	92.7	82.4	72.0
400	98.8	98.4	98.8	100.3	98.9	96.5	91.4	88.7	86.7	90.7	96.5	96.7	98.8	95.4	93.5	91.0	90.3	80.0	69.5
500	96.3	95.8	96.4	97.8	96.5	94.1	88.9	86.3	84.2	88.0	93.9	94.1	96.3	92.9	90.9	88.5	87.8	77.5	67.0
630	93.7	93.1	93.8	95.3	93.9	91.5	86.3	83.7	81.7	85.2	91.2	91.4	93.6	90.2	88.2	85.8	85.2	74.8	64.3
800	91.0	90.3	91.1	92.7	91.2	88.8	83.7	81.0	79.0	82.2	88.3	88.5	90.7	87.5	85.2	83.1	82.5	72.1	61.4
1000	88.2	87.3	88.3	89.9	88.4	86.0	80.8	78.2	76.2	79.0	85.2	85.6	87.7	84.5	82.2	80.1	79.6	69.2	58.3
1250	85.2	84.0	85.3	87.0	85.5	83.1	77.8	75.3	73.3	75.5	81.9	82.4	84.4	81.6	79.2	77.0	76.5	66.0	54.9
1600	82.0	80.8	82.2	83.9	82.4	79.9	74.6	72.1	70.1	72.2	78.3	79.0	80.9	78.5	76.1	73.6	73.1	62.5	51.0
2000	78.7	77.4	78.8	80.6	79.1	76.6	71.2	68.7	66.7	68.6	74.6	75.4	77.2	75.3	72.9	70.0	69.5	58.8	46.8
2500	75.0	73.7	75.2	77.0	75.4	73.0	67.5	65.0	63.1	64.8	70.5	71.3	73.6	71.7	69.1	66.3	65.9	54.9	42.3
3150	71.2	69.7	71.3	73.2	71.6	69.1	63.5	61.0	58.9	60.4	66.2	67.1	69.4	67.6	64.8	62.0	61.7	50.2	36.9
4000	66.9	65.4	67.0	69.0	67.4	64.8	59.0	56.5	54.3	55.6	61.5	62.5	64.8	63.0	60.1	57.2	56.9	44.7	30.6
5000	62.2	60.6	62.4	64.4	62.7	60.1	54.1	51.4	49.1	50.1	56.3	57.5	59.9	58.0	54.9	51.6	51.6	38.8	20.9
6300	57.0	55.3	57.2	59.2	57.6	54.7	48.7	45.9	43.3	43.9	50.3	52.0	54.6	52.7	49.3	45.8	45.5	32.1	7.4
8000	51.4	49.6	51.6	53.8	52.1	49.1	42.9	39.7	36.9	37.3	44.6	47.1	50.0	48.2	44.6	40.8	40.5	24.7	
10000	45.1	43.1	45.3	47.5	45.7	42.6	34.8	31.3	28.7	30.7	38.4	41.6	44.9	42.8	38.9	34.6	34.4	14.8	
12500	36.3	34.4	36.9	39.6	37.2	33.2	25.5	20.7	16.4	22.2	31.9	35.6	39.0	37.4	32.6	27.5	27.6	5.0	
16000	25.5	22.8	25.9	28.6	25.7	22.5	10.6	10.0	4.1	10.1	23.2	27.8	31.7	30.4	24.9	17.8	18.7		
20000	14.7	11.3	14.9	11.4	8.8	11.8					11.0	17.8	24.1	22.2	14.2	7.4	7.4		
25000	3.9		3.9			1.1						7.7	11.0	10.0	3.5				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-094
RUN 01
AIRCRAFT CODE 133
OPERATION CODE 01013
PROFILE VERSION A
04 NOV 75
PAGE E1

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
IDLE, 55% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	110.2	109.4	109.8	111.7	111.1	108.3	103.6	100.1	97.1	99.2	103.8	105.1	106.5	103.6	101.3	98.6	97.3	87.0	76.7
250	107.9	107.0	107.6	109.5	108.9	106.0	101.4	97.9	94.9	96.9	101.5	102.8	104.2	101.3	99.0	96.4	95.0	84.7	74.3
315	105.6	104.6	105.2	107.2	106.6	103.7	99.1	95.6	92.6	94.5	99.1	100.4	101.8	98.9	96.6	94.1	92.7	82.4	72.0
400	103.2	102.2	102.9	104.8	104.2	101.4	96.7	93.3	90.3	92.0	96.5	97.9	99.4	96.5	94.1	91.7	90.3	80.0	69.5
500	100.7	99.6	100.4	102.4	101.8	98.9	94.2	90.8	87.8	89.3	93.9	95.3	96.9	94.0	91.5	89.2	87.8	77.5	67.0
630	98.1	96.9	97.9	99.9	99.2	96.4	91.6	88.3	85.3	86.5	91.2	92.6	94.2	91.3	88.8	86.6	85.2	74.8	64.3
800	95.4	94.1	95.2	97.3	96.6	93.7	88.9	85.6	82.6	83.6	88.3	89.7	91.3	88.6	85.8	83.8	82.5	72.1	61.4
1000	92.6	91.8	92.4	94.5	93.8	90.9	86.1	82.8	79.8	80.3	85.2	86.8	88.3	85.7	82.8	80.8	79.6	69.2	58.3
1250	89.6	87.8	89.4	91.6	90.8	87.9	83.1	79.8	76.9	76.9	81.9	83.6	85.0	82.7	79.8	77.7	76.5	66.0	54.9
1600	86.5	84.6	86.2	88.5	87.7	84.8	79.9	76.7	73.7	73.5	78.3	80.2	81.5	79.6	76.7	74.3	73.1	62.5	51.0
2000	83.1	81.2	82.9	85.2	84.4	81.4	76.5	73.3	70.3	70.8	74.6	76.5	77.7	76.4	73.5	70.7	69.5	58.8	46.8
2500	79.4	77.5	79.2	81.6	80.8	77.8	72.8	69.6	66.6	66.1	70.5	72.5	74.1	72.9	69.7	67.1	65.9	54.9	42.3
3150	75.6	73.5	75.3	77.8	77.0	73.9	68.8	65.5	62.5	61.7	66.2	68.3	70.0	68.7	65.4	62.7	61.7	50.2	36.9
4000	70.4	68.4	70.2	72.7	71.7	68.6	63.3	60.2	57.2	56.7	61.5	63.4	65.3	63.9	60.5	57.7	56.9	44.7	30.6
5000	64.9	62.8	64.8	67.2	65.9	63.0	57.3	54.1	51.2	50.9	56.3	58.3	60.2	58.7	55.3	52.0	51.6	38.8	20.9
6300	58.7	56.8	58.8	61.1	59.8	56.7	50.8	47.7	44.7	44.4	50.3	52.5	54.8	53.2	49.6	46.1	45.5	32.1	7.4
8000	52.2	50.4	52.5	54.7	53.1	50.1	44.0	40.6	37.6	37.6	44.6	47.3	50.1	48.4	44.7	40.9	40.5	24.7	
10000	45.1	43.1	45.3	47.5	45.7	42.6	34.8	31.3	28.7	30.7	38.4	41.6	44.9	42.8	38.9	34.6	34.4	14.8	
12500	36.3	34.4	36.9	39.6	37.2	33.2	25.5	20.7	16.4	22.2	31.9	35.6	39.0	37.4	32.6	27.5	27.6	5.0	
16000	25.5	22.8	25.9	28.6	25.7	22.5	10.6	10.0	4.1	10.1	23.2	27.8	31.7	30.4	24.9	17.8	18.7		
20000	14.7	11.3	14.9	11.4	8.8	11.8					11.0	17.8	24.1	22.2	14.2	7.4	7.4		
25000	3.9		3.9			1.1						7.7	11.0	10.0	3.5				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT: A-7E AIRCRAFT ENG. TF-41 GROUND RUNUP

OPERATION: IDLE, 55% RPM SINGLE ENGINE

METEOROLOGY: TEMP = 59 F BAR PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = 0.0 DB

IDENTIFICATION: OMEGA 8.2 TEST 74-004-004 RUN 01 AIRCRAFT CODE 133 OPERATION CODE 01013 PROFILE VERSION A 04 NOV 75 PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	94.5	93.4	94.6	96.4	95.1	92.5	86.7	83.4	81.0	83.2	89.3	89.7	91.6	88.6	86.1	83.2	83.0	73.0	63.0
250	92.3	91.2	92.4	94.2	92.9	90.3	84.5	81.2	78.8	80.9	87.0	87.5	89.4	86.4	83.9	81.0	80.9	70.9	60.9
315	90.1	88.9	90.1	92.0	90.7	88.1	82.2	79.0	76.6	78.7	84.7	85.3	87.2	84.2	81.7	78.9	78.7	68.7	58.7
400	87.7	86.5	87.8	89.8	88.4	85.8	79.9	76.7	74.4	76.4	82.4	83.0	84.9	82.0	79.5	76.7	76.5	66.5	56.5
500	85.4	84.1	85.5	87.5	86.1	83.5	77.6	74.5	72.1	74.0	79.9	80.6	82.5	79.7	77.2	74.4	74.2	64.2	54.2
630	83.0	81.6	83.1	85.1	83.7	81.1	75.2	72.1	69.8	71.6	77.4	78.2	80.1	77.3	74.8	72.0	71.9	61.9	51.9
800	80.5	79.0	80.6	82.7	81.3	78.7	72.7	69.7	67.4	69.0	74.9	75.7	77.6	74.9	72.4	69.6	69.5	59.5	49.5
1000	77.9	76.4	78.1	80.2	78.8	76.2	70.2	67.2	64.9	66.4	72.2	73.2	75.1	72.5	69.9	67.0	67.0	57.0	47.0
1250	75.3	73.7	75.4	77.6	76.2	73.6	67.6	64.6	62.3	63.7	69.4	70.5	72.4	69.9	67.3	64.4	64.4	54.4	44.4
1600	72.5	70.8	72.6	74.9	73.5	70.8	64.8	61.9	59.6	60.9	66.5	67.8	69.7	67.3	64.6	61.6	61.8	51.8	41.8
2000	69.6	67.8	69.7	72.0	70.6	67.9	62.0	59.0	56.7	58.0	63.5	65.0	66.9	64.6	61.9	58.8	59.0	49.0	39.0
2500	66.5	64.7	66.7	69.0	67.5	64.9	58.9	55.9	53.7	54.8	60.3	61.9	63.9	61.7	58.8	55.7	56.0	46.0	36.0
3150	63.2	61.3	63.4	65.7	64.2	61.6	55.6	52.6	50.4	51.4	56.9	58.6	60.6	58.5	55.5	52.3	52.6	42.6	32.6
4000	59.6	57.6	59.7	62.1	60.7	58.0	52.1	49.0	46.8	47.7	53.2	55.0	57.0	54.8	51.8	48.5	48.9	38.9	28.9
5000	55.6	53.6	55.8	58.1	56.7	54.0	48.1	45.0	42.8	43.6	49.0	50.9	52.9	50.7	47.7	44.3	44.8	34.8	24.8
6300	51.1	49.1	51.3	53.6	52.3	49.6	43.7	40.6	38.4	39.1	44.5	46.5	48.6	46.4	43.3	39.9	40.3	30.3	20.3
8000	46.1	44.1	46.3	48.6	47.3	44.5	38.7	35.7	33.7	34.7	40.2	42.4	44.5	42.5	39.3	36.1	36.3	26.3	16.3
10000	40.4	38.5	40.7	42.9	41.5	38.8	33.0	30.2	28.5	30.0	35.5	37.9	40.2	38.4	35.1	32.0	32.0	22.0	12.0
12500	33.9	32.3	34.2	36.3	34.9	32.1	26.6	24.1	22.8	25.0	30.5	33.1	35.4	33.8	30.5	27.6	27.4	17.4	7.4
16000	26.5	25.2	26.8	28.7	27.2	24.4	19.3	17.4	16.7	19.6	25.2	27.9	30.3	28.9	25.6	22.9	22.5	12.5	2.5
20000	18.3	17.7	18.7	20.1	18.5	15.7	11.4	10.6	10.4	14.0	19.4	22.2	24.6	23.5	20.4	17.8	17.1	7.1	
25000	9.9	9.9	10.4	11.3	9.2	6.6	3.7	4.0	4.1	8.0	13.3	16.1	18.5	17.5	14.8	12.5	11.4	1.4	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 01
AIRCRAFT CODE 133
OPERATION CODE 01013
PROFILE VERSION A
04 NOV 75
PAGE G1

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
IDLE, 55% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE	ANGLE (DEGREES)																		
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	99.0	97.2	98.6	101.0	100.4	97.3	92.0	87.9	84.6	84.5	89.3	90.9	92.2	89.7	86.7	83.9	83.0	73.0	63.0
250	96.7	95.0	96.4	98.8	98.2	95.1	89.8	85.8	82.4	82.3	87.0	88.7	90.0	87.5	84.5	81.7	80.9	70.9	60.9
315	94.5	92.7	94.2	96.6	96.0	92.9	87.5	83.5	80.2	80.0	84.7	86.4	87.7	85.3	82.3	79.6	78.7	68.7	58.7
400	92.2	90.3	91.9	94.4	93.7	90.7	85.2	81.3	78.0	77.7	82.4	84.1	85.4	83.1	80.0	77.4	76.5	66.5	56.5
500	89.8	87.9	89.5	92.1	91.4	88.3	82.9	79.0	75.7	75.3	79.9	81.8	83.1	80.8	77.7	75.1	74.2	64.2	54.2
630	87.4	85.4	87.1	89.7	89.1	86.0	80.5	76.6	73.3	72.9	77.4	79.4	80.7	78.4	75.4	72.7	71.9	61.9	51.9
800	84.9	82.8	84.7	87.3	86.6	83.5	78.0	74.2	70.9	70.4	74.9	76.9	78.2	76.0	73.0	70.3	69.5	59.5	49.5
1000	82.3	80.2	82.1	84.8	84.1	81.0	75.5	71.7	68.5	67.8	72.2	74.3	75.6	73.6	70.5	67.7	67.0	57.0	47.0
1250	79.7	77.4	79.5	82.2	81.5	78.4	72.9	69.1	65.9	65.0	69.4	71.7	73.0	71.1	67.9	65.1	64.4	54.4	44.4
1600	76.9	74.6	76.7	79.5	78.8	75.7	70.1	66.4	63.2	62.2	66.5	69.0	70.3	68.4	65.2	62.3	61.8	51.8	41.8
2000	74.0	71.6	73.8	76.6	75.9	72.8	67.3	63.5	60.3	59.3	63.5	66.1	67.5	65.7	62.5	59.5	59.0	49.0	39.0
2500	70.9	68.4	70.7	73.6	72.9	69.7	64.2	60.5	57.3	56.1	60.3	63.1	64.5	62.8	59.4	56.4	56.0	46.0	36.0
3150	67.6	65.1	67.4	70.3	69.6	66.4	60.9	57.2	54.0	52.7	56.9	59.8	61.2	59.6	56.1	53.0	52.6	42.6	32.6
4000	63.1	60.6	63.0	65.7	64.9	61.9	56.3	52.7	49.7	48.8	53.2	55.9	57.5	55.7	52.3	49.1	48.9	38.9	28.9
5000	58.2	55.8	58.2	60.8	59.9	56.9	51.3	47.8	45.0	44.4	49.0	51.6	53.3	51.4	48.0	44.8	44.8	34.8	24.8
6300	52.9	50.6	52.9	55.5	54.4	51.5	45.8	42.4	39.8	39.6	44.5	47.0	48.8	46.8	43.5	40.2	40.3	30.3	20.3
8000	47.0	44.9	47.1	49.5	48.3	45.5	39.8	36.6	34.4	35.0	40.2	42.6	44.7	42.7	39.4	36.2	36.3	26.3	16.3
10000	40.4	38.5	40.7	42.9	41.5	38.8	33.0	30.2	28.5	30.0	35.5	37.9	40.2	38.4	35.1	32.0	32.0	22.0	12.0
12500	33.9	32.3	34.2	36.3	34.9	32.1	26.6	24.1	22.8	25.0	30.5	33.1	35.4	33.8	30.5	27.6	27.4	17.4	7.4
16000	26.5	25.2	26.8	28.7	27.2	24.4	19.3	17.4	18.7	19.8	25.2	27.9	30.3	28.9	25.6	22.9	22.5	12.5	2.5
20000	18.3	17.7	18.7	20.1	18.5	15.7	11.4	10.6	10.4	14.0	19.4	22.2	24.6	23.5	20.4	17.8	17.1	7.1	
25000	9.9	9.9	10.4	11.3	9.2	6.6	3.7	4.0	4.1	8.0	13.3	16.1	18.5	17.5	14.8	12.5	11.4	1.4	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

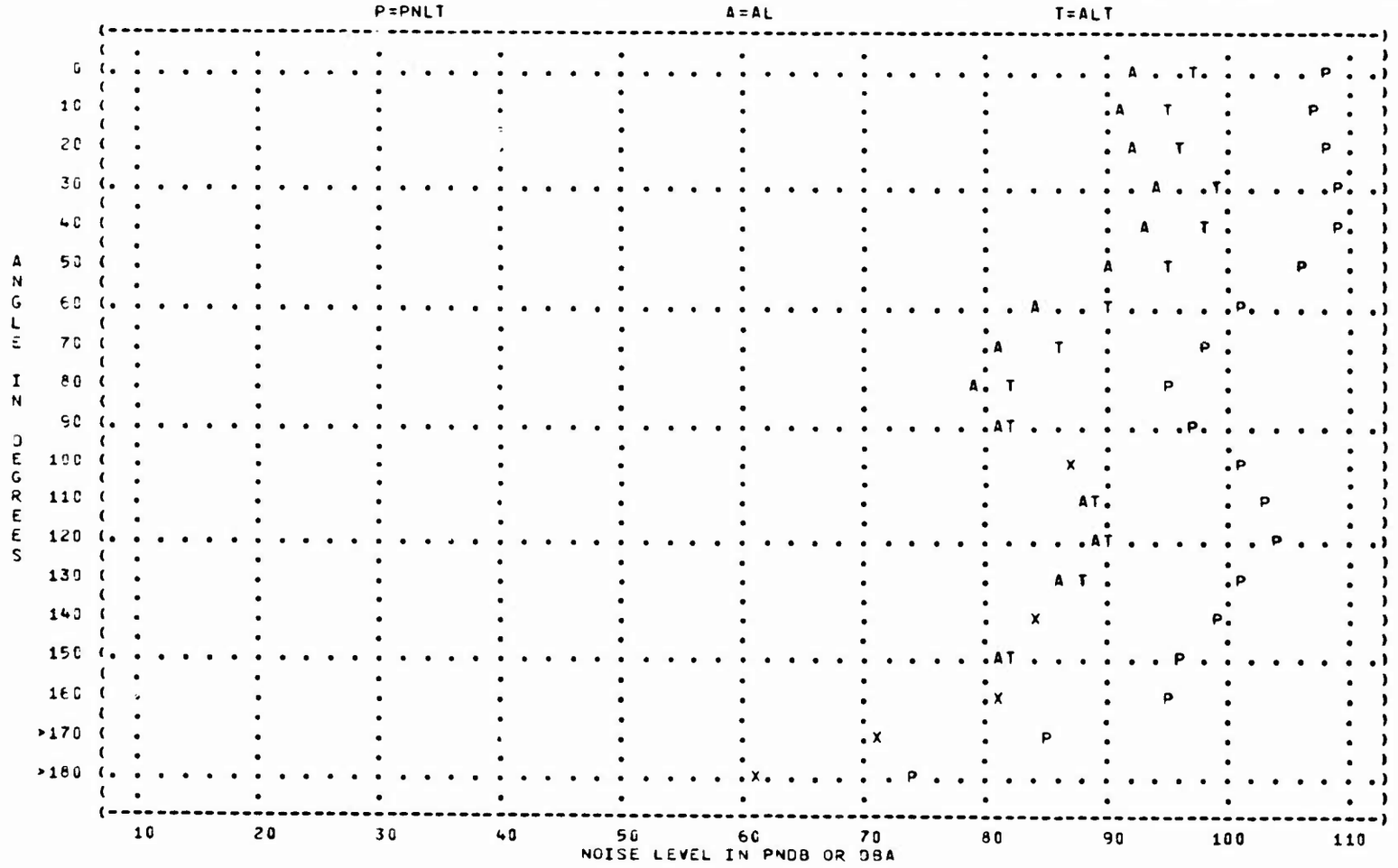
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
IDLE, 55% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 01
AIRCRAFT CODE 133
OPERATION CODE 010.3
PROFILE VERSION "
04 NOV 75
PAGE J1



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 02
AIRCRAFT CODE 133
OPERATION CODE 01021
PROFILE VERSION A
04 NOV 75
PAGE C2

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 70% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	87	86	86	85	76	82	86	84	81	88	88	88	92	93	92	94	89	79	69
63	79	79	79	77	74	78	78	76	80	80	82	84	86	88	89	89	84	74	64
80	79	79	79	76	79	79	76	79	77	81	83	86	87	89	90	90	84	74	64
100	78	77	76	76	77	75	77	75	77	72	80	83	85	86	88	89	80	70	60
125	74	73	75	77	74	75	75	76	75	76	80	82	83	86	87	87	76	66	56
160	71	71	75	72	73	71	71	71	72	75	77	78	80	82	84	83	70	60	50
200	71	70	72	70	69	69	69	72	71	75	78	80	82	82	83	81	66	56	46
250	74	73	72	71	71	71	70	71	71	74	77	81	82	83	80	80	61	51	41
315	73	72	72	73	71	70	68	69	70	74	78	80	83	85	80	80	59	49	39
400	71	72	71	71	71	68	68	67	69	73	77	80	82	81	78	76	55	45	35
500	71	72	73	72	71	69	68	69	70	74	79	82	85	82	79	77	57	47	37
630	72	73	71	73	72	68	68	68	71	76	79	82	84	81	76	77	60	50	40
800	75	78	77	75	75	71	69	67	69	73	78	81	82	78	75	73	57	47	37
1000	79	79	77	76	75	71	70	67	68	73	77	81	80	76	75	73	56	46	36
1250	77	78	77	76	75	70	68	66	67	74	78	81	78	76	74	70	55	45	35
1600	83	86	86	90	86	80	80	72	72	77	80	83	77	75	76	73	57	47	37
2000	91	93	92	93	90	86	86	72	74	78	78	84	77	76	76	75	59	49	39
2500	84	83	82	81	79	77	78	70	68	74	77	81	74	74	71	67	54	44	34
3150	84	84	85	85	85	91	86	77	72	76	80	82	80	76	72	70	57	47	37
4000	84	85	84	84	84	82	80	73	69	76	82	83	83	77	73	70	56	46	36
5000	84	83	82	83	81	80	78	73	68	76	84	85	83	77	74	71	55	45	35
6300	81	81	78	80	78	77	75	68	65	73	78	82	79	76	72	69	53	43	33
8000	79	78	76	77	76	74	71	65	63	71	75	78	77	75	72	67	52	42	32
10000	75	74	73	73	71	69	67	61	62	67	72	73	73	70	67	62	49	39	29
OVERALL	96	96	96	96	94	94	93	88	87	91	94	96	97	98	98	98	92	82	72

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 70% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 02
AIRCRAFT CODE 133
OPERATION CODE 01021
PROFILE VERSION A
04 NOV 75
PAGE 02

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	111.4	112.2	111.6	112.0	110.0	111.4	108.3	101.1	98.9	103.6	108.6	110.9	109.6	106.8	104.4	103.0	91.9	79.7	68.1
250	109.1	109.9	109.3	109.8	107.7	109.1	105.9	98.6	96.6	101.2	106.2	108.5	107.3	104.5	102.2	100.8	89.4	77.2	65.6
315	106.8	107.6	107.0	107.5	105.4	106.7	103.6	96.4	94.2	98.8	103.7	106.1	104.9	102.2	100.0	98.6	86.8	74.7	63.1
400	104.4	105.2	104.6	105.1	103.1	104.2	101.1	94.0	91.7	96.3	101.2	103.5	102.5	99.8	97.6	96.3	84.1	72.2	60.4
500	101.9	102.8	102.1	102.6	100.6	101.6	98.5	91.4	89.2	93.8	98.5	100.8	99.8	97.2	95.2	93.8	81.4	69.6	57.6
630	99.3	100.2	99.6	100.1	98.0	98.9	95.8	88.7	86.5	91.2	95.6	98.0	97.0	94.4	92.6	91.3	78.6	65.9	54.5
800	96.6	97.5	96.9	97.4	95.3	96.0	92.9	85.8	83.6	88.4	92.5	94.9	94.1	91.5	89.8	88.5	75.8	64.1	51.1
1000	93.7	94.6	94.0	94.5	92.4	92.9	89.8	82.7	80.7	85.6	89.3	91.9	90.9	88.5	87.0	85.7	73.0	61.1	47.3
1250	90.6	91.6	91.0	91.5	89.4	89.5	86.4	79.4	77.6	82.5	85.9	88.7	87.4	85.3	83.8	82.5	69.6	57.5	42.4
1600	87.3	88.3	87.7	88.2	86.0	85.8	82.8	75.7	74.3	79.2	82.3	85.4	83.7	82.1	80.5	79.2	66.2	53.2	37.0
2000	83.7	84.8	84.2	84.7	82.5	81.7	79.2	71.7	70.7	75.6	78.4	81.3	80.4	78.8	76.9	75.6	61.9	47.7	27.7
2500	79.8	80.8	80.2	80.8	78.5	77.9	75.1	67.1	66.7	71.6	74.5	77.3	76.8	75.1	72.8	71.6	56.9	41.7	15.0
3150	75.4	76.5	75.9	76.5	74.2	71.8	70.7	61.9	62.2	67.2	70.1	73.4	72.6	70.9	68.5	67.1	50.8	34.0	2.2
4000	70.5	71.7	71.1	71.6	69.3	66.4	65.7	56.8	57.1	62.2	65.3	68.5	67.9	66.1	63.6	62.3	43.4	22.3	
5000	65.0	66.2	65.6	66.2	63.8	60.5	59.9	50.9	51.1	56.7	60.1	63.2	62.9	61.0	58.4	57.0	36.1	9.1	
6300	58.8	60.1	59.4	60.0	57.6	54.1	53.4	43.7	44.1	50.5	54.0	57.5	57.5	55.5	52.8	51.3	25.4		
8000	52.1	53.4	52.6	53.3	50.9	47.1	46.4	36.6	38.0	44.4	48.6	52.2	53.0	51.2	47.9	46.3	14.4		
10000	43.6	45.3	44.5	46.3	42.4	37.5	36.6	29.6	31.4	38.5	42.8	46.7	48.0	46.0	42.8	40.8	3.4		
12500	32.6	34.5	33.6	35.9	32.3	23.6	22.7	18.8	21.7	31.4	36.4	40.4	42.4	39.9	36.4	33.7			
16000	18.7	22.6	21.5	20.3	18.2	7.4	8.9	8.3	11.5	22.2	29.3	33.4	36.0	33.4	28.8	25.9			
20000	4.7	10.6	9.3	4.7	4.1				1.2	10.3	19.0	24.8	29.1	25.9	18.8	14.4			
25000											8.6	11.0	18.7	12.3	8.7	2.9			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 70% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 02
AIRCRAFT CODE 133
OPERATION CODE 01021
PROFILE VERSION A
04 NOV 75
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	113.8	115.0	114.4	115.1	112.9	115.2	110.9	102.9	100.3	103.6	109.8	111.9	109.6	106.8	105.4	104.6	93.1	80.9	69.3
250	111.6	112.7	112.2	112.8	110.7	112.9	108.6	100.6	98.0	101.2	107.4	109.6	107.3	104.5	103.3	102.5	90.6	78.4	66.8
315	109.2	110.4	109.9	110.5	108.4	110.5	106.2	98.2	95.6	98.8	105.0	107.1	104.9	102.2	101.0	100.3	88.0	75.9	64.3
400	106.8	108.0	107.5	108.1	106.0	108.0	103.8	95.7	93.2	96.3	102.4	104.6	102.5	99.8	98.7	98.0	85.3	73.4	61.6
500	104.4	105.5	105.0	105.7	103.5	105.4	101.2	93.1	90.6	93.8	99.7	101.9	99.8	97.2	96.2	95.5	82.6	70.8	58.8
630	101.8	103.0	102.5	103.1	100.9	102.7	98.5	90.4	87.9	91.2	96.8	99.0	97.0	94.4	93.6	93.0	79.8	68.1	55.7
800	99.0	100.3	99.8	100.4	98.2	99.8	95.6	87.5	85.1	88.4	93.7	96.0	94.1	91.5	90.9	90.2	77.0	65.3	52.3
1000	96.1	97.4	96.9	97.5	95.4	96.7	92.5	84.4	82.1	85.6	90.5	92.9	90.9	88.5	88.0	87.3	74.2	62.3	48.5
1250	93.1	94.3	93.9	94.5	92.3	93.3	89.1	81.1	79.0	82.5	87.1	89.8	87.4	85.3	84.9	84.2	70.8	58.7	43.6
1600	89.7	91.1	90.6	91.2	89.0	89.6	85.5	77.5	75.8	79.2	83.5	86.5	83.7	82.1	81.5	80.9	67.4	54.4	38.2
2000	86.2	87.5	87.1	87.7	85.4	85.5	81.8	73.4	72.1	75.6	79.6	82.9	80.4	78.8	77.9	77.2	63.1	48.9	28.9
2500	82.2	83.6	83.1	83.8	81.5	80.8	77.8	68.9	68.1	71.6	75.7	78.9	76.8	75.1	73.9	73.3	58.1	42.9	16.2
3150	77.9	79.3	78.8	79.5	77.2	75.6	73.4	63.7	63.6	67.2	71.3	74.5	72.6	70.9	69.5	68.8	52.0	35.2	3.4
4000	72.5	73.9	73.4	74.1	71.7	69.4	67.8	58.2	58.3	62.2	66.3	69.4	67.9	66.1	64.4	63.6	44.4	23.2	
5000	66.5	67.9	67.4	68.0	65.6	62.8	61.6	51.9	51.9	56.7	60.8	63.9	62.9	61.0	59.0	58.0	36.8	9.8	
6300	59.6	61.2	60.6	61.3	58.8	55.6	54.5	44.4	44.7	50.5	54.5	57.9	57.5	55.5	53.3	52.0	25.8		
8000	52.6	53.9	53.2	53.9	51.5	47.9	46.9	37.0	38.3	44.4	48.8	52.4	53.0	51.2	48.1	46.7	14.6		
10000	43.6	45.3	44.5	46.3	42.4	37.5	36.6	29.6	31.4	38.5	42.8	46.7	48.0	46.0	42.8	40.8	3.4		
12500	32.6	34.5	33.6	35.9	32.3	23.6	22.7	18.8	21.7	31.4	36.4	40.4	42.4	39.9	36.4	33.7			
16000	18.7	22.6	21.5	20.3	18.2	7.4	8.9	8.3	11.5	22.2	29.3	33.4	36.0	33.4	28.8	25.9			
20000	4.7	10.6	9.3	4.7	4.1				1.2	10.3	19.0	24.8	29.1	25.9	18.8	14.4			
25000											8.6	11.0	18.7	12.3	8.7	2.9			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 70% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 02
AIRCRAFT CODE 133
OPERATION CODE 01021
PROFILE VERSION A
04 NOV 75
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	97.8	98.7	98.1	99.1	97.0	96.7	94.0	85.3	83.7	89.1	93.3	96.0	94.3	91.5	89.0	87.3	72.8	62.8	52.8
250	95.5	96.5	95.9	96.9	94.7	94.4	91.8	83.0	81.5	86.8	91.0	93.7	92.1	89.3	86.9	85.2	70.7	60.7	50.7
315	93.2	94.2	93.6	94.6	92.4	92.1	89.5	80.7	79.3	84.6	88.7	91.4	89.8	87.1	84.7	83.0	68.6	58.6	48.6
400	90.8	91.9	91.3	92.3	90.1	89.6	87.1	78.3	77.0	82.2	86.2	89.0	87.4	84.8	82.4	80.8	66.4	56.4	46.4
500	88.4	89.5	88.9	89.9	87.7	87.1	84.6	75.8	74.6	79.8	83.7	86.6	85.0	82.5	80.1	78.5	64.2	54.2	44.2
630	85.8	87.0	86.4	87.4	85.1	84.5	82.0	73.2	72.2	77.3	81.1	84.0	82.5	80.1	77.7	76.2	61.9	51.9	41.9
800	83.2	84.4	83.8	84.9	82.5	81.7	79.3	70.5	69.7	74.7	78.4	81.4	80.0	77.7	75.3	73.8	59.6	49.6	39.6
1000	80.4	81.7	81.1	82.2	79.8	78.7	76.5	67.7	67.0	72.1	75.6	78.7	77.4	75.2	72.8	71.3	57.1	47.1	37.1
1250	77.5	78.8	78.2	79.4	76.9	75.5	73.5	64.7	64.3	69.3	72.7	75.8	74.7	72.5	70.1	68.7	54.4	44.4	34.4
1600	74.4	75.8	75.2	76.4	73.8	72.1	70.2	61.6	61.4	66.4	69.7	72.9	72.0	69.8	67.4	65.9	51.5	41.5	31.5
2000	71.1	72.5	71.9	73.1	70.5	68.4	66.8	58.3	58.4	63.4	66.7	69.9	69.2	67.0	64.5	63.0	48.2	38.2	28.2
2500	67.6	69.0	68.4	69.7	67.0	64.4	63.0	54.8	55.2	60.2	63.5	66.7	66.3	64.0	61.4	59.9	44.7	34.7	24.7
3150	63.7	65.1	64.5	65.8	63.1	60.0	58.9	51.1	51.8	56.8	60.0	63.3	63.1	60.6	57.9	56.5	40.9	30.9	20.9
4000	59.4	60.9	60.3	61.6	58.9	55.3	54.5	47.0	47.9	53.0	56.3	59.6	59.5	56.9	54.2	52.7	36.8	26.8	16.8
5000	54.7	56.2	55.5	56.9	54.2	50.1	49.5	42.7	43.7	48.7	52.2	55.4	55.5	52.7	50.0	48.5	32.4	22.4	12.4
6300	49.4	50.9	50.2	51.6	48.9	44.6	44.1	37.9	39.1	44.2	47.7	50.9	51.1	48.3	45.5	44.0	27.9	17.9	7.9
8000	43.8	45.2	44.5	45.6	43.2	38.8	38.2	33.5	34.7	39.8	43.4	46.6	47.3	44.5	41.6	40.2	24.4	14.4	4.4
10000	37.8	39.1	38.4	39.2	37.0	32.8	32.0	28.8	30.2	35.2	38.9	42.0	43.2	40.5	37.3	36.1	20.9	10.9	.9
12500	31.5	32.7	32.0	32.3	30.5	26.7	25.7	23.9	25.4	30.3	34.0	37.1	38.6	36.1	32.9	31.8	17.5	7.5	
16000	25.1	26.2	25.5	25.3	24.0	20.6	19.7	18.9	20.3	25.1	28.8	31.8	33.6	31.4	28.2	27.2	14.3	4.3	
20000	18.5	19.4	19.0	18.6	17.4	14.6	13.9	13.6	14.9	19.4	23.1	26.0	28.1	26.2	23.3	22.5	11.3	1.3	
25000	12.0	12.6	12.3	11.9	10.7	8.7	8.4	8.2	9.2	13.5	17.1	19.8	22.1	20.8	18.3	17.9	8.5		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 70% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-304-004
RUN 02
AIRCRAFT CODE 133
OPERATION CODE 01021
PROFILE VERSION A
04 NOV 75
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	100.2	101.5	101.0	102.1	99.9	100.5	96.7	87.0	85.2	89.1	94.6	97.1	94.7	91.5	90.1	89.0	74.0	64.0	54.0
250	97.9	99.3	98.8	99.9	97.7	98.2	94.5	84.8	83.0	86.8	92.3	94.8	92.1	89.3	87.9	86.9	71.9	61.9	51.9
315	95.6	97.0	96.5	97.7	95.4	95.9	92.1	82.4	80.7	84.6	89.9	92.5	89.8	87.1	85.7	84.7	69.8	59.8	49.8
400	93.3	94.7	94.2	95.3	93.0	93.4	89.8	80.0	78.4	82.2	87.5	90.1	87.4	84.8	83.4	82.5	67.6	57.6	47.6
500	90.8	92.3	91.8	93.0	90.6	90.9	87.3	77.5	76.0	79.8	84.9	87.6	85.0	82.5	81.1	80.2	65.4	55.4	45.4
630	88.3	89.8	89.3	90.5	88.1	88.3	84.7	74.9	73.6	77.3	82.3	85.1	82.5	80.1	78.7	77.9	63.1	53.1	43.1
800	85.6	87.2	86.7	87.9	85.5	85.5	82.0	72.2	71.1	74.7	79.6	82.4	80.0	77.7	76.3	75.5	60.8	50.8	40.8
1000	82.9	84.4	83.9	85.2	82.7	82.5	79.2	69.4	68.5	72.1	76.8	79.7	77.4	75.2	73.8	73.0	58.3	48.3	38.3
1250	80.0	81.6	81.1	82.4	79.8	79.3	76.2	66.4	65.7	69.3	73.9	76.9	74.7	72.5	71.1	70.3	55.6	45.6	35.6
1600	76.9	78.5	78.0	79.4	76.8	75.9	72.9	63.3	62.9	66.4	71.0	74.0	72.0	69.8	68.4	67.6	52.7	42.7	32.7
2000	73.6	75.3	74.8	76.2	73.5	72.2	69.4	60.0	59.9	63.4	67.9	71.0	69.2	67.0	65.5	64.7	49.4	39.4	29.4
2500	70.0	71.8	71.2	72.7	69.9	68.2	65.7	56.5	56.7	60.2	64.7	67.8	66.3	64.0	62.4	61.6	45.9	35.9	25.9
3150	66.1	67.9	67.4	68.9	66.1	63.8	61.6	52.8	53.2	56.9	61.3	64.4	63.1	60.6	59.0	58.2	42.1	32.1	22.1
4000	61.4	63.1	62.6	64.1	61.3	58.3	56.6	48.4	49.1	53.0	57.3	60.4	59.5	56.9	55.0	54.0	37.7	27.7	17.7
5000	56.1	57.8	57.2	58.7	55.9	52.4	51.1	43.7	44.5	48.7	52.9	56.1	55.5	52.7	50.5	49.5	33.1	23.1	13.1
6300	50.4	52.0	51.4	52.8	50.1	46.1	45.1	38.6	39.6	44.2	48.2	51.4	51.1	48.3	45.9	44.7	28.4	18.4	8.4
8000	44.3	45.7	45.1	46.3	43.7	39.6	38.7	33.8	35.0	39.8	43.7	46.9	47.3	44.5	41.8	40.5	24.6	14.6	4.6
10000	37.8	39.1	38.4	39.2	37.0	32.8	32.0	28.8	30.2	35.2	38.9	42.0	43.2	40.5	37.3	36.1	20.9	10.9	.9
12500	31.5	32.7	32.0	32.3	30.5	26.7	25.7	23.9	25.4	30.3	34.0	37.1	38.6	36.1	32.9	31.8	17.5	7.5	
16000	25.1	26.2	25.5	25.3	24.0	20.6	19.7	18.9	20.3	25.1	28.8	31.8	33.6	31.4	28.2	27.2	14.3	4.3	
20000	18.5	19.4	19.0	18.6	17.4	14.6	13.9	13.6	14.9	19.4	23.1	26.0	28.1	26.2	23.3	22.5	11.3	1.3	
25000	12.0	12.6	12.3	11.9	10.7	8.7	8.4	8.2	9.2	13.5	17.1	19.8	22.1	20.8	18.3	17.9	8.5		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

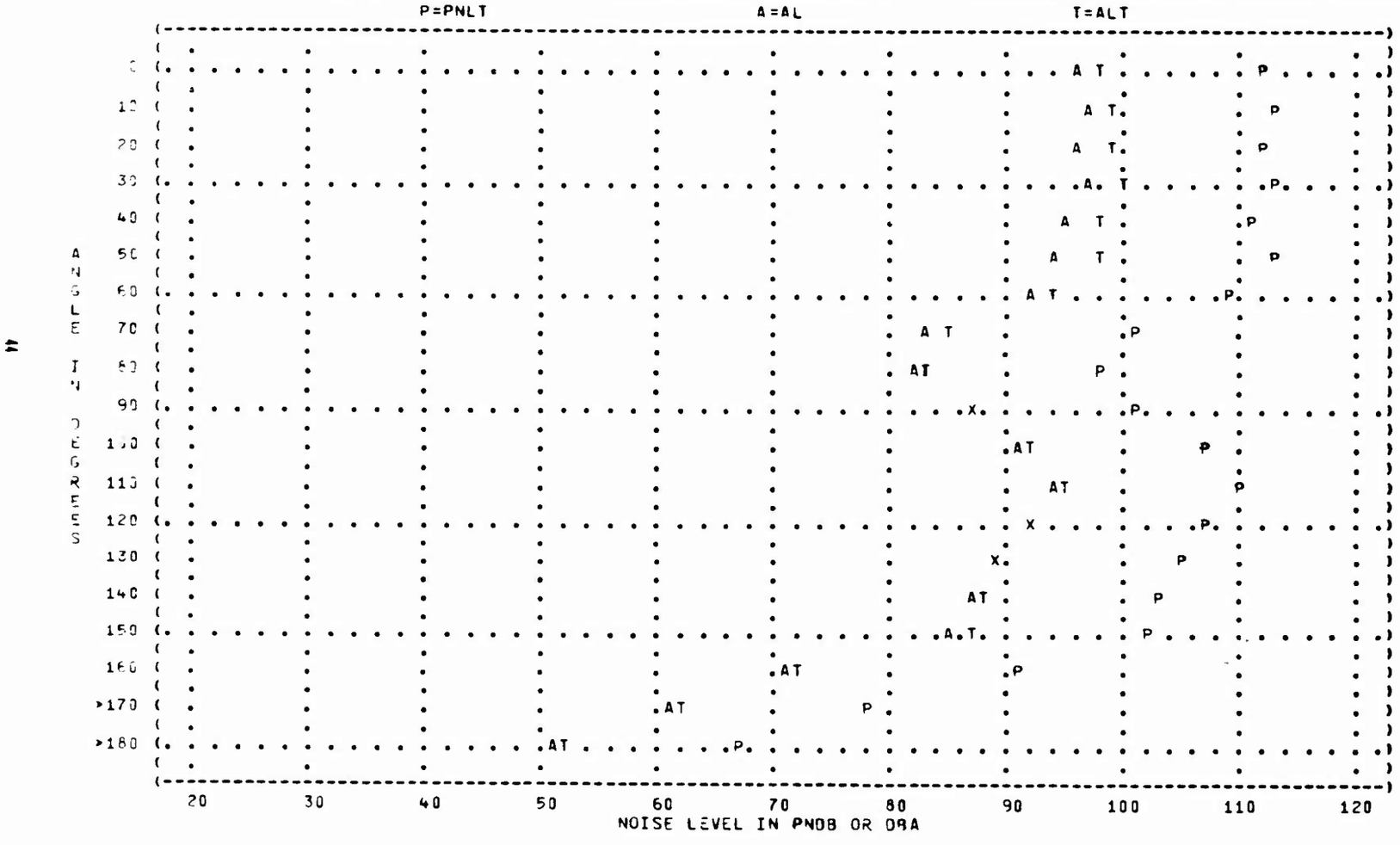
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 70% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 02
AIRCRAFT CODE 133
OPERATION CODE 01021
PROFILE VERSION A
04 NOV 75
PAGE J2



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 03
AIRCRAFT CODE 133
OPERATION CODE 01018
PROFILE VERSION A
04 NOV 75
PAGE C3

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
50	73	75	75	75	76	76	79	80	79	82	86	89	94	97	105	100	94	87	80
63	77	78	79	80	80	79	83	83	84	87	89	94	99	103	110	105	98	92	85
80	77	77	76	78	78	79	81	81	82	85	87	91	96	101	108	103	96	90	83
100	79	80	80	81	81	82	83	83	84	88	91	94	99	104	111	106	99	92	86
125	81	81	81	82	81	82	83	84	85	89	93	95	100	106	111	106	99	93	86
160	83	83	85	83	84	83	83	85	86	89	94	96	100	107	113	108	101	95	88
200	83	84	84	83	83	84	83	85	86	90	95	97	100	106	112	107	101	94	87
250	84	84	84	85	84	84	83	85	86	91	96	98	102	106	110	105	99	92	85
315	84	85	84	85	85	85	84	85	86	91	96	98	102	104	106	101	94	88	81
400	83	84	85	85	85	85	84	86	87	92	97	99	102	104	104	99	92	85	79
500	81	83	84	84	85	84	83	85	86	92	96	98	101	103	102	97	90	84	77
630	80	83	83	83	85	84	83	85	86	93	96	99	101	102	102	96	90	83	76
800	80	82	82	83	84	84	83	85	85	92	95	97	99	100	100	95	88	82	75
1000	80	81	82	81	84	83	82	83	84	91	93	95	97	98	98	93	86	80	73
1250	79	80	81	81	83	83	81	83	83	91	92	94	96	95	96	90	84	77	70
1600	80	81	81	81	83	83	81	84	83	89	91	92	94	93	92	86	80	73	66
2000	83	84	84	83	83	83	81	83	82	89	90	92	93	91	89	84	77	70	64
2500	89	91	90	88	89	90	87	88	87	93	95	91	92	90	86	81	74	67	61
3150	88	90	87	85	86	86	83	85	83	90	93	92	92	89	84	79	72	66	59
4000	87	88	86	84	83	83	81	84	81	90	92	93	91	89	84	80	73	66	60
5000	88	89	88	87	85	85	82	83	81	89	92	92	91	87	83	79	72	65	59
6300	86	87	86	84	84	84	80	80	80	87	88	89	87	85	80	75	68	62	55
8000	83	84	82	82	81	80	77	79	79	87	89	89	86	85	79	74	67	60	54
10000	79	80	78	78	76	76	73	75	75	82	85	86	83	81	75	70	64	57	50
OVERALL	97	99	98	97	98	98	96	98	98	104	107	109	112	115	120	115	108	102	95

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 03
AIRCRAFT CODE 133
OPERATION CODE 01018
PROFILE VERSION A
04 NOV 75
PAGE 03

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	113.5	114.9	113.9	113.0	113.4	113.7	111.4	113.0	112.2	118.6	121.1	121.6	122.5	123.4	126.0	120.9	114.3	107.6	100.8
250	111.2	112.7	111.6	110.7	111.2	111.4	109.2	110.8	109.9	116.4	118.9	119.3	120.3	121.3	123.9	118.9	112.2	105.5	98.7
315	108.9	110.3	109.3	108.4	108.8	109.1	106.8	108.5	107.6	114.1	116.6	116.9	118.1	119.2	121.8	116.8	110.1	103.4	96.6
400	106.5	107.9	106.9	106.0	106.4	106.7	104.5	106.1	105.2	111.7	114.2	114.5	115.8	117.0	119.6	114.6	107.9	101.1	94.3
500	103.9	105.3	104.4	103.4	103.9	104.2	102.0	103.6	102.8	109.2	111.8	112.0	113.5	114.7	117.3	112.2	105.5	98.7	91.9
630	101.3	102.7	101.7	100.8	101.3	101.6	99.4	101.0	100.2	106.6	109.2	109.3	111.1	112.3	114.8	109.8	103.0	96.2	89.3
800	98.4	99.9	98.9	98.0	98.6	98.9	96.6	98.3	97.4	103.9	106.5	106.6	108.6	109.9	112.3	107.2	100.4	93.6	86.7
1000	95.4	96.9	95.9	95.0	95.6	95.9	93.7	95.4	94.5	101.0	103.6	103.6	106.0	107.3	109.5	104.4	97.6	90.8	83.7
1250	92.2	93.6	92.7	91.8	92.5	92.8	90.6	92.2	91.4	97.8	100.5	100.6	103.3	104.6	106.6	101.4	94.6	87.7	80.5
1600	88.7	90.2	89.3	88.4	89.0	89.3	87.1	88.8	88.0	94.5	97.1	97.6	100.4	101.7	103.3	98.1	91.3	84.2	77.0
2000	84.9	86.4	85.5	84.7	85.4	85.7	83.5	85.2	84.4	90.8	93.5	94.4	97.2	98.7	100.0	94.8	87.8	80.8	73.8
2500	80.7	82.2	81.3	80.5	81.3	81.6	79.4	81.1	80.4	86.8	89.5	90.7	93.4	94.9	96.2	90.9	83.9	76.9	69.9
3150	76.0	77.5	76.7	75.9	76.7	77.0	74.9	76.6	75.9	82.3	85.2	86.9	89.4	90.9	92.0	86.5	79.5	72.5	65.4
4000	70.7	72.2	71.5	70.7	71.6	71.9	69.7	71.4	70.8	77.6	80.8	82.6	85.1	86.4	87.5	81.9	75.0	67.9	60.7
5000	64.8	66.3	65.7	64.9	65.9	66.1	64.1	65.8	65.9	72.7	75.9	77.8	80.3	81.7	82.7	77.2	70.2	63.0	55.6
6300	58.2	59.8	59.2	58.8	60.1	59.9	58.4	60.6	60.7	67.6	70.8	72.8	75.4	76.7	77.8	72.2	65.1	57.8	50.1
8000	52.3	54.0	54.2	54.4	55.5	55.3	53.8	55.9	56.3	63.2	66.5	68.6	71.3	73.0	74.1	68.5	61.3	53.8	45.6
10000	46.7	48.8	49.1	49.3	50.4	50.0	48.5	50.9	51.3	58.5	61.9	64.2	67.1	69.0	70.1	64.6	57.1	49.3	40.5
12500	40.7	42.8	43.4	43.4	44.6	44.2	42.6	45.2	45.6	53.2	56.9	59.1	62.5	64.6	66.0	60.3	52.6	44.2	34.9
16000	33.4	35.9	36.4	36.9	37.9	37.4	36.0	38.5	39.2	47.1	51.5	53.8	57.5	59.8	61.4	55.6	47.5	38.6	28.4
20000	25.3	28.2	28.7	29.4	30.7	30.2	28.2	31.3	31.8	40.4	45.5	48.0	51.8	54.4	56.3	50.1	41.4	31.8	15.9
25000	12.5	16.9	17.8	18.6	19.6	18.9	16.9	20.6	21.3	32.2	38.2	40.9	45.2	48.3	50.5	43.7	34.3	21.8	3.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 03
AIRCRAFT CODE 133
OPERATION CODE 01018
PROFILE VERSION A
04 NOV 75
PAGE E7

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	114.8	116.2	115.3	114.5	114.9	115.4	113.0	114.6	113.6	119.8	122.3	121.6	122.5	123.4	126.0	120.9	114.3	107.6	100.8
250	112.5	114.0	113.0	112.2	112.6	113.2	110.7	112.3	111.3	117.5	120.0	119.3	120.3	121.3	123.9	118.9	112.2	105.5	98.7
315	110.1	111.6	110.7	109.9	110.3	110.8	108.4	110.0	109.0	115.2	117.8	116.9	118.1	119.2	121.8	116.8	110.1	103.4	96.6
400	107.7	109.2	108.2	107.5	107.9	108.4	106.1	107.6	106.7	112.8	115.4	114.5	115.8	117.0	119.6	114.6	107.9	101.1	94.3
500	105.2	106.7	105.7	105.0	105.4	106.0	103.6	105.2	104.2	110.4	112.9	112.0	113.5	114.7	117.3	112.2	105.5	98.7	91.9
630	102.5	104.0	103.1	102.3	102.8	103.3	101.0	102.6	101.6	107.8	110.3	109.3	111.1	112.3	114.8	109.8	103.0	96.2	89.3
800	99.7	101.2	100.3	99.5	100.0	100.6	98.2	99.8	98.9	105.0	107.6	106.6	108.6	109.9	112.3	107.2	100.4	93.6	86.7
1000	96.7	98.2	97.3	96.6	97.1	97.6	95.3	96.9	96.0	102.1	104.7	103.6	106.0	107.3	109.5	104.4	97.6	90.8	83.7
1250	93.4	94.9	94.1	93.4	93.9	94.5	92.1	93.8	92.8	99.0	101.6	100.6	103.3	104.6	106.6	101.4	94.6	87.7	80.5
1600	89.9	91.5	90.6	89.9	90.5	91.1	88.7	90.4	89.5	95.6	98.3	97.6	100.4	101.7	103.3	98.1	91.3	84.2	77.0
2000	86.1	87.7	86.8	86.2	86.8	87.4	85.1	86.7	85.8	92.0	94.6	94.4	97.2	98.7	100.0	94.8	87.8	80.8	73.8
2500	81.9	83.5	82.7	82.1	82.7	83.3	81.0	82.7	81.8	88.0	90.6	90.7	93.4	94.9	96.2	90.9	83.9	76.9	69.9
3150	77.2	78.8	78.0	77.4	78.2	78.7	76.5	78.1	77.3	83.5	86.3	86.9	89.4	90.9	92.0	86.5	79.5	72.5	65.4
4000	71.7	73.3	72.6	72.0	72.8	73.2	71.0	72.7	71.9	78.5	81.7	82.6	85.1	86.4	87.5	81.9	75.0	67.9	60.7
5000	65.6	67.1	66.5	65.9	66.7	67.2	65.0	66.8	66.8	73.4	76.6	77.8	80.3	81.7	82.7	77.2	70.2	63.0	55.6
6300	58.7	60.4	59.7	59.5	60.7	60.6	59.1	61.2	61.2	68.1	71.3	72.8	75.4	76.7	77.8	72.2	65.1	57.8	50.1
8000	52.5	54.2	54.5	54.7	55.8	55.6	54.1	56.2	56.6	63.4	66.7	68.6	71.3	73.0	74.1	68.5	61.3	53.8	45.6
10000	46.7	48.8	49.1	49.3	50.4	50.0	48.5	50.9	51.3	58.5	61.9	64.2	67.1	69.0	70.1	64.6	57.1	49.3	40.5
12500	40.7	42.8	43.4	43.4	44.6	44.2	42.6	45.2	45.6	53.2	56.9	59.1	62.5	64.6	66.0	60.3	52.6	44.2	34.9
16000	33.4	35.9	36.4	36.9	37.9	37.4	36.0	38.5	39.2	47.1	51.5	53.8	57.5	59.8	61.4	55.6	47.5	38.6	28.4
20000	25.3	28.2	28.7	29.4	30.7	30.2	28.2	31.3	31.8	40.4	45.5	48.0	51.8	54.4	56.3	50.1	41.4	31.8	15.9
25000	12.5	16.9	17.8	18.6	19.6	18.9	16.9	20.6	21.3	32.2	38.2	40.9	45.2	48.3	50.5	43.7	34.3	21.8	3.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 03
AIRCRAFT CODE 133
OPERATION CODE 01018
PROFILE VERSION A
04 NOV 75
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	99.1	100.6	99.3	98.2	98.7	98.8	96.4	98.1	97.4	104.3	106.8	107.8	109.7	110.5	112.0	106.9	100.3	93.6	86.9
250	96.8	98.3	97.0	95.9	96.4	96.6	94.2	95.9	95.2	102.1	104.6	105.6	107.6	108.4	110.0	104.9	98.2	91.5	84.9
315	94.4	95.9	94.7	93.6	94.1	94.3	91.9	93.7	93.0	99.9	102.4	103.4	105.5	106.3	108.0	102.8	96.2	89.5	82.8
400	91.9	93.4	92.2	91.2	91.8	91.9	89.6	91.4	90.7	97.6	100.1	101.2	103.3	104.2	105.8	100.7	94.1	87.4	80.7
500	89.3	90.8	89.7	85.7	89.4	89.5	87.2	89.0	88.4	95.2	97.8	98.9	101.1	102.0	103.6	98.5	91.9	85.2	78.5
630	86.6	88.2	87.1	86.1	86.9	87.0	84.8	86.6	86.0	92.8	95.4	96.6	98.9	99.8	101.3	96.2	89.5	82.9	76.2
800	83.8	85.4	84.3	83.4	84.3	84.4	82.2	84.0	83.5	90.3	92.9	94.2	96.6	97.5	99.0	93.8	87.1	80.5	73.8
1000	80.9	82.4	81.5	80.7	81.6	81.7	79.6	81.4	81.0	87.8	90.4	91.8	94.2	95.2	96.5	91.3	84.7	78.0	71.3
1250	77.8	79.4	78.5	77.8	78.8	78.9	76.9	78.7	78.3	85.1	87.8	89.3	91.7	92.7	93.8	88.7	82.0	75.4	68.7
1600	74.6	76.1	75.4	74.8	75.9	75.9	74.0	75.9	75.6	82.4	85.1	86.7	89.2	90.2	91.1	85.9	79.3	72.6	65.9
2000	71.2	72.7	72.2	71.7	72.9	72.9	71.1	72.9	72.8	79.5	82.3	84.0	86.6	87.5	88.3	83.1	76.4	69.7	63.1
2500	67.5	69.1	68.7	68.4	69.7	69.6	67.9	69.8	69.7	76.5	79.3	81.1	83.6	84.6	85.1	79.9	73.2	66.6	59.9
3150	63.6	65.2	65.0	64.8	66.2	66.0	64.4	66.3	66.4	73.2	76.0	77.9	80.4	81.3	81.7	76.4	69.8	63.1	56.4
4000	59.4	61.0	61.0	60.9	62.4	62.2	60.7	62.6	62.7	69.6	72.3	74.3	76.8	77.6	77.9	72.6	66.0	59.3	52.6
5000	54.9	56.5	56.6	56.6	58.2	57.9	56.5	58.4	58.5	65.5	68.2	70.2	72.7	73.5	73.8	68.5	61.8	55.2	48.5
6300	50.1	51.8	52.0	52.1	53.7	53.4	52.1	53.9	54.1	61.1	63.8	65.9	68.4	69.1	69.4	64.1	57.5	50.8	44.1
8000	45.7	47.5	47.7	47.9	49.6	49.2	47.9	49.8	50.1	57.0	59.9	62.0	64.5	65.4	65.7	60.5	53.8	47.1	40.5
10000	41.2	43.0	43.3	43.6	45.1	44.7	43.5	45.4	45.7	52.6	55.7	57.8	60.4	61.4	61.8	56.5	49.8	43.2	36.5
12500	36.4	38.3	38.6	38.9	40.3	39.9	38.7	40.7	41.0	47.9	51.0	53.2	55.9	57.0	57.5	52.2	45.5	38.9	32.2
16000	31.3	33.1	33.4	33.8	35.0	34.6	33.5	35.5	35.9	42.5	46.0	48.1	50.9	52.2	52.8	47.6	41.0	34.3	27.6
20000	25.8	27.6	27.9	28.2	29.3	28.9	27.8	29.8	30.3	36.7	40.4	42.5	45.5	46.9	48.0	42.8	36.1	29.5	22.8
25000	19.9	21.5	21.9	22.2	23.1	22.7	21.6	23.7	24.2	30.4	34.3	36.4	39.5	41.3	43.0	37.9	31.2	24.5	17.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 03
AIRCRAFT CODE 133
OPERATION CODE 01018
PROFILE VERSION A
04 NOV 75
PAGE 63

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	100.4	101.9	100.7	99.8	100.1	100.5	98.3	99.7	98.8	105.5	108.0	107.8	109.7	110.5	112.0	106.9	100.3	93.6	86.9
250	98.0	99.6	98.4	97.5	97.9	98.3	95.8	97.5	96.6	103.3	105.8	105.6	107.6	108.4	110.0	104.9	98.2	91.5	84.9
315	95.6	97.2	96.0	95.1	95.6	96.0	93.5	95.2	94.4	101.0	103.5	103.4	105.5	106.3	108.0	102.8	96.2	89.5	82.8
400	93.1	94.7	93.6	92.7	93.2	93.6	91.2	92.9	92.1	98.7	101.3	101.2	103.3	104.2	105.8	100.7	94.1	87.4	30.7
500	90.6	92.2	91.0	90.2	90.8	91.2	88.8	90.5	89.8	96.4	98.9	98.9	101.1	102.0	103.6	98.5	91.9	85.2	78.5
630	87.9	89.5	88.4	87.6	88.3	88.7	86.3	88.1	87.4	94.0	96.5	96.6	98.9	99.8	101.3	96.2	89.5	82.9	76.2
800	85.1	86.7	85.7	85.0	85.7	86.1	83.8	85.6	84.9	91.5	94.1	94.2	96.6	97.5	99.0	93.8	87.1	80.5	73.8
1000	82.1	83.8	82.8	82.2	83.0	83.4	81.2	83.0	82.4	88.9	91.6	91.8	94.2	95.2	96.5	91.3	84.7	78.0	71.3
1250	79.1	80.7	79.8	79.3	80.3	80.6	78.5	80.2	79.8	86.3	88.9	89.3	91.7	92.7	93.8	88.7	82.0	75.4	68.7
1600	75.8	77.4	76.7	76.3	77.4	77.6	75.6	77.4	77.1	83.5	86.2	86.7	89.2	90.2	91.1	85.9	79.3	72.6	65.9
2000	72.4	74.0	73.5	73.2	74.3	74.6	72.7	74.5	74.2	80.7	83.5	84.0	86.6	87.5	88.3	83.1	76.4	69.7	63.1
2500	68.8	70.4	70.1	69.9	71.1	71.3	69.5	71.3	71.1	77.6	80.4	81.1	83.6	84.6	85.1	79.9	73.2	66.6	59.9
3150	64.9	66.5	66.3	66.3	67.6	67.7	66.0	67.9	67.8	74.3	77.1	77.9	80.4	81.3	81.7	76.4	69.8	63.1	56.4
4000	60.4	62.1	62.1	62.1	63.6	63.5	62.0	63.8	63.8	70.5	73.2	74.3	76.8	77.6	77.9	72.6	66.0	59.3	52.6
5000	55.6	57.3	57.4	57.5	59.1	59.0	57.5	59.3	59.4	66.2	68.9	70.2	72.7	73.5	73.8	68.5	61.8	55.2	48.5
6300	50.6	52.3	52.5	52.7	54.3	54.1	52.7	54.6	54.7	61.6	64.3	65.9	68.4	69.1	69.4	64.1	57.5	50.8	44.1
8000	46.0	47.7	48.0	48.2	49.9	49.5	48.2	50.1	50.4	57.3	60.1	62.0	64.6	65.4	65.7	60.5	53.8	47.1	40.5
10000	41.2	43.0	43.3	43.6	45.1	44.7	43.5	45.4	45.7	52.6	55.7	57.8	60.4	61.4	61.8	56.5	49.8	43.2	36.5
12500	36.4	38.3	38.6	38.9	40.3	39.9	38.7	40.7	41.0	47.8	51.0	53.2	55.9	57.0	57.5	52.2	45.5	38.9	32.2
16000	31.3	33.1	33.4	33.8	35.0	34.6	33.5	35.5	35.9	42.5	46.0	48.1	50.9	52.2	52.8	47.6	41.0	34.3	27.6
20000	25.8	27.6	27.9	28.2	29.3	28.9	27.8	29.8	30.3	36.7	40.4	42.5	45.5	46.9	48.0	42.8	36.1	29.5	22.8
25000	19.9	21.5	21.9	22.2	23.1	22.7	21.6	23.7	24.2	30.4	34.3	36.4	39.5	41.3	43.0	37.9	31.2	24.5	17.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

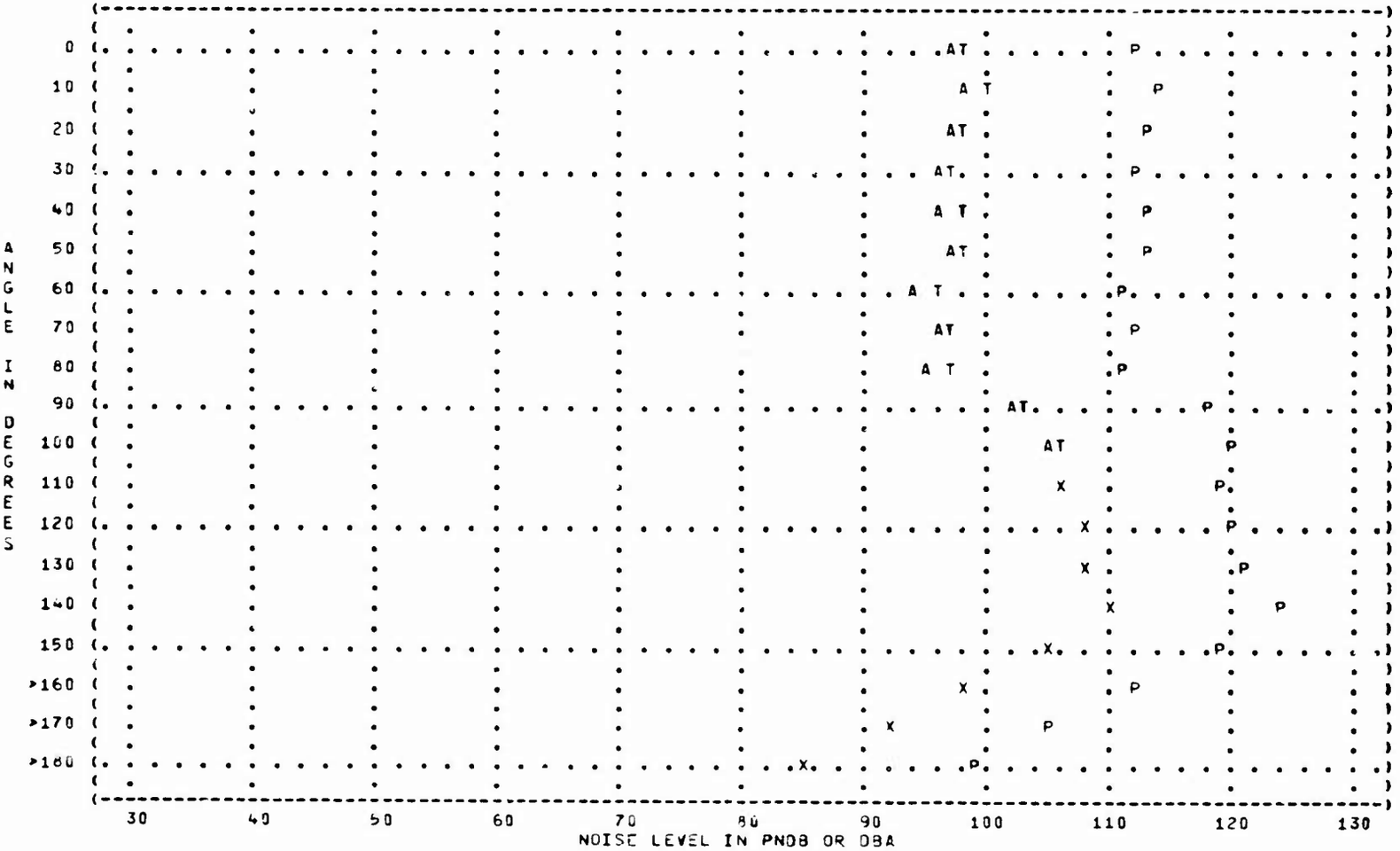
OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %

DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 03
AIRCRAFT CODE 133
OPERATION CODE 01018
PROFILE VERSION A
04 NOV 75
PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 04
AIRCRAFT CODE 133
OPERATION CODE 01006
PROFILE VERSION A
04 NOV 75
PAGE C4

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
94% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
50	83	81	83	84	84	84	85	86	87	87	92	88	90	98	102	101	94	88	81
63	84	85	85	85	86	86	87	89	88	90	93	91	92	102	105	104	97	90	84
80	85	86	86	87	87	87	87	88	90	93	96	93	96	105	109	106	99	93	86
100	89	89	88	90	89	90	91	90	93	95	99	98	100	109	111	109	102	96	89
125	91	91	90	91	90	90	91	92	93	98	101	100	103	112	113	110	103	96	90
160	95	93	95	93	92	92	92	94	95	98	102	101	105	115	115	112	105	98	92
200	91	91	94	93	93	91	91	92	94	100	103	101	104	115	115	113	106	99	93
250	93	96	96	96	94	94	92	94	96	101	105	104	105	114	116	115	108	102	95
315	98	101	99	99	97	94	93	93	97	102	107	105	107	114	115	116	109	103	96
400	106	107	108	107	103	99	96	96	98	104	107	106	107	114	115	115	108	101	95
500	103	105	106	108	105	103	100	98	99	105	107	106	107	112	115	113	107	100	93
630	100	104	105	107	106	105	103	101	100	106	108	107	106	112	113	112	106	99	92
800	98	102	103	105	105	105	104	103	103	106	108	106	105	110	111	111	104	98	91
1000	96	100	101	104	103	103	101	101	103	108	107	105	104	109	111	109	103	96	89
1250	94	98	99	102	103	102	101	99	102	108	108	104	102	108	109	109	102	96	89
1600	92	97	98	102	102	102	100	99	102	106	108	102	100	106	108	108	101	94	88
2000	90	96	96	100	100	101	99	97	101	106	108	101	100	106	107	107	100	93	87
2500	88	94	95	98	98	100	98	97	100	104	106	100	97	104	105	104	98	91	84
3150	86	92	93	97	97	98	96	94	98	103	106	100	97	103	104	103	96	90	83
4000	85	91	92	97	96	99	96	94	98	104	106	100	97	103	105	104	97	90	84
5000	84	90	91	95	95	96	94	92	97	102	104	99	95	101	103	102	95	89	82
6300	81	87	88	91	91	93	92	90	94	100	102	96	93	99	101	99	92	86	79
8000	78	84	86	90	91	92	90	89	93	98	99	94	91	98	100	98	91	85	78
10000	74	81	82	86	87	88	87	85	89	95	96	92	89	96	98	95	89	82	75
OVERALL	110	112	113	115	114	113	111	110	112	117	119	116	116	124	125	124	117	111	104

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
94% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 04
AIRCRAFT CODE 133
OPERATION CODE 01006
PROFILE VERSION A
04 NOV 75
PAGE D4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	120.8	123.3	124.3	126.1	125.7	126.3	124.5	123.4	126.3	131.3	133.4	129.8	127.3	134.0	135.6	134.5	127.8	121.1	114.5
250	118.7	121.2	122.1	123.9	123.5	124.1	122.2	121.2	124.0	129.0	131.1	126.8	125.1	131.8	133.3	132.3	125.7	119.0	112.3
315	116.5	119.0	119.9	121.6	121.2	121.8	120.0	118.9	121.7	126.7	128.7	124.5	122.9	129.6	131.0	130.2	123.5	116.8	110.1
400	114.3	116.8	117.7	119.3	118.9	119.4	117.6	116.5	119.4	124.2	126.3	122.1	120.6	127.3	128.8	127.9	121.3	114.6	107.8
500	112.1	114.5	115.4	117.0	116.5	117.0	115.1	114.1	116.9	121.6	123.8	119.6	118.3	125.0	126.5	125.6	119.0	112.3	105.5
630	109.8	112.1	113.1	114.6	114.0	114.4	112.6	111.5	114.3	119.1	121.2	117.0	115.9	122.6	124.1	123.3	116.6	109.9	103.1
800	107.4	109.7	110.6	112.1	111.4	111.7	109.9	108.8	111.6	116.4	118.5	114.2	113.4	120.1	121.6	120.8	114.1	107.4	100.6
1000	104.9	107.2	108.1	109.6	108.6	108.9	107.0	106.0	108.8	113.6	115.8	111.4	110.8	117.6	119.0	118.2	111.5	104.7	97.9
1250	102.3	104.5	105.5	106.8	105.8	105.9	104.0	103.0	105.8	110.6	112.8	108.3	108.0	114.8	116.2	115.4	108.7	101.9	95.1
1600	99.6	101.8	102.7	104.0	102.8	102.8	100.9	99.7	102.5	107.4	109.6	105.4	105.2	111.9	113.3	112.6	105.8	99.0	92.2
2000	96.8	98.9	99.8	101.0	99.7	99.5	97.6	96.5	99.1	104.0	106.1	102.2	102.1	108.9	110.3	109.5	102.7	96.0	89.1
2500	93.1	95.2	96.2	97.8	96.4	96.0	94.1	93.1	95.4	100.2	102.3	98.8	98.4	105.1	106.6	105.7	98.9	92.1	85.3
3150	89.0	91.1	92.1	94.1	92.9	92.4	90.5	89.5	91.4	96.1	98.3	95.1	94.6	100.9	102.7	101.7	94.9	88.0	81.2
4000	84.4	86.9	87.9	90.0	88.8	88.2	86.5	85.5	87.1	91.7	93.8	90.9	90.3	96.6	98.3	97.3	90.5	83.6	76.8
5000	79.5	82.3	83.3	85.4	84.2	83.6	82.1	81.1	82.6	87.0	88.9	86.2	85.6	91.9	93.5	92.5	85.7	78.9	72.0
6300	74.7	77.4	78.4	80.5	79.3	78.7	77.2	76.3	77.7	82.1	83.7	81.3	80.7	87.0	88.6	87.6	80.8	73.9	67.0
8000	70.9	73.5	74.4	76.4	75.1	74.3	72.7	71.8	73.2	77.3	79.1	77.1	76.7	83.0	84.8	83.7	76.9	70.0	63.0
10000	66.8	69.3	70.3	72.0	70.6	69.7	67.9	67.0	68.3	72.5	74.5	72.6	72.4	78.9	80.7	79.6	72.7	65.7	58.7
12500	62.2	64.7	65.7	67.3	65.6	64.7	62.6	61.6	62.8	67.4	69.4	67.7	67.8	74.4	76.3	75.1	68.2	61.1	53.9
16000	57.2	59.6	60.6	62.2	60.1	59.0	56.9	55.5	56.7	61.7	64.1	62.4	62.8	69.6	71.5	70.3	63.2	56.0	48.6
20000	51.7	53.8	54.9	56.4	54.2	52.5	50.4	49.1	50.0	55.6	58.2	56.7	57.2	64.2	66.2	64.9	57.7	50.3	42.0
25000	45.7	47.2	48.4	49.8	47.5	45.3	42.3	40.9	42.5	48.9	51.7	50.4	51.0	58.3	60.2	58.9	51.5	43.4	34.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
96% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 04
AIRCRAFT CODE 133
OPERATION CODE 01006
PROFILE VERSION A
04 NOV 75
PAGE E4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	121.8	124.0	125.1	126.1	125.7	126.3	124.5	123.4	126.3	131.3	133.4	129.0	127.3	134.0	135.6	134.5	127.8	121.1	114.5
250	119.6	121.8	123.0	123.9	123.5	124.1	122.2	121.2	124.0	129.0	131.1	126.8	125.1	131.8	133.3	132.3	125.7	119.0	112.3
315	117.5	119.6	120.8	121.6	121.2	121.8	120.0	118 9	121.7	126.7	128.7	124.5	122.9	129.6	131.0	130.2	123.5	116.8	110.1
400	115.3	117.4	118.6	119.3	118.9	119.4	117.6	116.5	119.4	124.2	126.3	122.1	120.6	127.3	128.8	127.9	121.3	114.6	107.8
500	113.0	115.1	116.3	117.0	116.5	117.0	115.1	114.1	116.9	121.6	123.8	119.6	118.3	125.0	126.5	125.6	119.0	112.3	105.5
630	110.7	112.8	113.9	114.6	114.0	114.4	112.6	111.5	114.3	119.1	121.2	117.0	115.9	122.6	124.1	123.3	116.6	109.9	103.1
800	108.4	110.4	111.5	112.1	111.4	111.7	109.9	108.8	111.6	116.4	118.5	114.2	113.4	120.1	121.6	120.8	114.1	107.4	100.6
1000	105.9	107.8	109.0	109.6	108.6	108.9	107.0	106.0	108.8	113.6	115.8	111.4	110.8	117.6	119.0	118.2	111.5	104.7	97.9
1250	103.3	105.2	106.3	106.8	105.8	105.9	104.0	103.0	105.5	110.6	112.8	108.3	108.0	114.8	116.2	115.4	108.7	101.9	95.1
1600	100.6	102.4	103.6	104.0	102.8	102.8	100.9	99.7	102.5	107.5	109.6	105.4	105.2	111.9	113.3	112.6	105.8	99.0	92.2
2000	97.8	99.5	100.7	101.0	99.7	99.5	97.6	96.5	99.1	104.0	106.1	102.2	102.1	108.9	110.3	109.5	102.7	96.0	89.1
2500	94.1	95.8	97.0	97.8	96.4	96.0	94.1	93.1	95.4	100.2	102.3	98.8	98.4	105.1	106.6	105.7	98.9	92.1	85.3
3150	90.0	91.8	92.9	94.1	92.9	92.4	90.5	89.5	91.4	96.1	98.3	95.1	94.6	100.9	102.7	101.7	94.9	88.0	81.2
4000	85.2	87.4	88.6	90.0	88.8	88.2	86.5	85.5	87.1	91.7	93.8	90.9	90.3	96.6	98.3	97.3	90.5	83.6	76.8
5000	80.1	82.7	83.8	85.4	84.2	83.6	82.1	81.1	82.6	87.0	88.9	86.2	85.6	91.9	93.5	92.5	85.7	78.9	72.0
6300	75.1	77.7	78.8	80.5	79.3	78.7	77.2	76.3	77.7	82.1	83.7	81.3	80.7	87.0	88.6	87.6	80.8	73.9	67.0
8000	71.1	73.6	74.6	76.4	75.1	74.3	72.7	71.8	73.2	77.3	79.1	77.1	76.7	83.0	84.8	83.7	76.9	70.0	63.0
10000	66.8	69.3	70.3	72.0	70.6	69.7	67.9	67.0	68.3	72.5	74.5	72.6	72.4	78.9	80.7	79.6	72.7	65.7	58.7
12500	62.2	64.7	65.7	67.3	65.6	64.7	62.6	61.6	62.8	67.4	69.4	67.7	67.8	74.4	76.3	75.1	68.2	61.1	53.9
16000	57.2	59.6	60.6	62.2	60.1	59.0	56.9	55.5	56.7	61.7	64.1	62.4	62.8	69.6	71.5	70.3	63.2	56.0	48.6
20000	51.7	53.8	54.9	56.4	54.2	52.5	50.4	49.1	50.0	55.6	58.2	56.7	57.2	64.2	66.2	64.9	57.7	50.3	42.0
25000	45.7	47.2	48.4	49.8	47.5	45.3	42.3	40.9	42.5	48.9	51.7	50.4	51.0	58.3	60.2	58.9	51.5	43.4	34.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
94% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 04
AIRCRAFT CODE 133
OPERATION CODE 01006
PROFILE VERSION A
04 NOV 75
PAGE F4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	109.0	112.0	113.0	115.3	114.6	114.5	112.6	111.3	113.8	118.7	120.3	116.4	115.3	121.3	122.7	122.1	115.4	108.7	102.1
250	107.0	110.0	110.9	113.2	112.4	112.3	110.5	109.2	111.6	116.5	118.1	114.2	113.1	119.2	120.6	120.0	113.3	106.6	100.0
315	104.9	107.9	108.8	111.1	110.3	110.2	108.3	107.0	109.4	114.3	115.9	112.1	111.0	117.1	118.4	117.8	111.2	104.5	97.8
400	102.8	105.7	106.7	108.9	108.1	107.9	106.1	104.8	107.2	112.0	113.6	109.8	108.9	114.9	116.3	115.7	109.0	102.3	95.7
500	100.7	103.6	104.5	106.7	105.9	105.7	103.8	102.6	104.9	109.7	111.3	107.6	106.7	112.7	114.1	113.5	106.8	100.1	93.5
630	98.5	101.4	102.3	104.5	103.6	103.4	101.5	100.3	102.6	107.3	108.9	105.3	104.4	110.5	111.8	111.2	104.6	97.9	91.2
800	96.3	99.1	100.1	102.2	101.3	101.0	99.2	97.9	100.2	104.9	106.4	103.0	102.1	108.1	109.5	108.9	102.3	95.6	88.9
1000	94.1	96.8	97.8	99.9	99.0	98.6	96.7	95.5	97.7	102.4	103.9	100.5	99.8	105.8	107.1	106.6	99.9	93.2	86.6
1250	91.8	94.5	95.5	97.5	96.5	96.0	94.2	93.0	95.1	99.8	101.3	98.0	97.3	103.3	104.6	104.1	97.4	90.7	84.1
1600	89.4	92.1	93.1	95.0	94.0	93.4	91.6	90.4	92.4	97.1	98.5	95.5	94.8	100.7	102.0	101.5	94.8	88.2	81.5
2000	87.0	89.6	90.6	92.5	91.4	90.7	88.9	87.7	89.6	94.3	95.7	92.8	92.2	98.0	99.4	98.8	92.2	85.5	78.8
2500	84.0	86.6	87.7	89.6	88.5	87.9	86.1	84.9	86.6	91.3	92.6	89.9	89.3	95.1	96.4	95.8	89.2	82.5	75.8
3150	80.6	83.4	84.5	86.5	85.4	84.8	83.0	81.8	83.4	88.1	89.4	86.3	86.1	91.8	93.1	92.5	85.9	79.2	72.5
4000	76.9	79.8	80.9	83.0	81.9	81.3	79.5	78.4	79.9	84.5	85.7	83.2	82.5	88.1	89.4	88.9	82.2	75.5	68.9
5000	72.6	75.7	76.7	79.0	78.0	77.3	75.6	74.5	76.0	80.5	81.7	79.2	78.4	84.0	85.3	84.7	78.1	71.4	64.7
6300	68.2	71.3	72.4	74.6	73.6	73.0	71.3	70.2	71.7	76.2	77.2	74.9	74.1	79.7	81.0	80.4	73.7	67.0	60.4
8000	64.6	67.6	68.6	70.8	69.6	68.9	67.2	66.1	67.4	71.9	73.0	71.0	70.2	75.8	77.1	76.5	69.8	63.2	56.5
10000	60.6	63.5	64.5	66.5	65.3	64.4	62.7	61.6	62.7	67.2	68.4	66.6	66.0	71.6	73.0	72.3	65.6	59.0	52.3
12500	56.3	59.0	60.1	61.9	60.5	59.6	57.8	56.6	57.5	62.0	63.4	61.9	61.3	67.1	68.5	67.8	61.1	54.4	47.8
16000	51.6	54.1	55.2	56.8	55.2	54.1	52.3	51.0	51.8	56.4	58.0	56.6	56.3	62.1	63.5	62.8	56.2	49.5	42.8
20000	46.4	48.6	49.7	51.2	49.4	48.1	46.1	44.7	45.4	50.2	52.1	50.9	50.7	56.7	58.2	57.4	50.7	44.1	37.4
25000	40.5	42.5	43.6	44.8	42.8	41.3	39.2	37.8	38.4	43.4	45.6	44.5	44.6	50.8	52.3	51.5	44.8	38.2	31.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 04
AIRCRAFT CODE 133
OPERATION CODE 01006
PROFILE VERSION A
04 NOV 75
PAGE 64

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
94% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	110.0	112.7	113.9	115.3	114.6	114.5	112.6	111.3	113.8	118.7	120.3	116.4	115.3	121.3	122.7	122.1	115.4	108.7	102.1
250	107.9	110.6	111.8	113.2	112.4	112.3	110.5	109.2	111.6	116.5	118.1	114.2	113.1	119.2	120.6	120.0	113.3	106.6	100.0
315	105.9	108.5	109.7	111.1	110.3	110.2	108.3	107.0	109.4	114.3	115.9	112.1	111.0	117.1	118.4	117.8	111.2	104.5	97.8
400	103.8	106.4	107.6	108.9	108.1	107.9	106.1	104.8	107.2	112.0	113.6	109.8	108.9	114.9	116.3	115.7	109.0	102.3	95.7
500	101.6	104.2	105.4	106.7	105.9	105.7	103.8	102.6	104.9	109.7	111.3	107.6	106.7	112.7	114.1	113.5	106.8	100.1	93.5
630	99.5	102.0	103.2	104.5	103.6	103.4	101.5	100.3	102.6	107.3	108.9	105.3	104.4	110.5	111.8	111.2	104.6	97.9	91.2
800	97.3	99.8	101.0	102.2	101.3	101.0	99.2	97.9	100.2	104.9	106.4	103.0	102.1	108.1	109.5	108.9	102.3	95.6	88.9
1000	95.1	97.5	98.7	99.9	99.0	98.6	96.7	95.5	97.7	102.4	103.9	100.5	99.8	105.8	107.1	106.6	99.9	93.2	86.6
1250	92.8	95.1	96.3	97.5	96.5	96.0	94.2	93.0	95.1	99.8	101.3	98.0	97.3	103.3	104.6	104.1	97.4	90.7	84.1
1600	90.4	92.7	93.9	95.0	94.0	93.4	91.6	90.4	92.4	97.1	98.5	95.5	94.8	100.7	102.0	101.5	94.8	88.2	81.5
2000	88.0	90.2	91.4	92.5	91.4	90.7	88.9	87.7	89.6	94.3	95.7	92.8	92.2	98.0	99.4	98.8	92.2	85.5	78.8
2500	85.0	87.3	88.6	89.6	88.5	87.9	86.1	84.9	86.6	91.3	92.6	89.9	89.3	95.1	96.4	95.8	89.2	82.5	75.8
3150	81.6	84.1	85.3	86.5	85.4	84.8	83.0	81.8	83.4	88.1	89.4	86.9	86.1	91.8	93.1	92.5	85.9	79.2	72.5
4000	77.6	80.3	81.5	83.0	81.9	81.3	79.5	78.4	79.9	84.5	85.7	83.2	82.5	88.1	89.4	88.9	82.2	75.5	68.9
5000	73.2	76.1	77.3	79.0	78.0	77.3	75.6	74.5	76.0	80.6	81.7	79.2	78.4	84.0	85.3	84.7	78.1	71.4	64.7
6300	68.6	71.6	72.7	74.6	73.6	73.0	71.3	70.2	71.7	76.2	77.2	74.9	74.1	79.7	81.0	80.4	73.7	67.0	60.4
8000	64.8	67.7	68.8	70.8	69.6	68.9	67.2	66.1	67.4	71.9	73.0	71.0	70.2	75.8	77.1	76.5	69.8	63.2	56.5
10000	60.6	63.5	64.5	66.5	65.3	64.4	62.7	61.6	62.7	67.2	68.4	66.6	66.0	71.6	73.0	72.3	65.6	59.0	52.3
12500	56.3	59.0	60.1	61.9	60.5	59.6	57.8	56.6	57.5	62.0	63.4	61.9	61.3	67.1	68.5	67.8	61.1	54.4	47.8
16000	51.6	54.1	55.2	56.8	55.2	54.1	52.3	51.0	51.8	56.4	58.0	56.6	56.3	62.1	63.5	62.8	56.2	49.5	42.8
20000	46.4	48.6	49.7	51.2	49.4	48.1	46.1	44.7	45.4	50.2	52.1	50.9	50.7	56.7	58.2	57.4	50.7	44.1	37.4
25000	40.5	42.5	43.6	44.8	42.8	41.3	39.2	37.8	38.4	43.4	45.6	44.5	44.6	50.8	52.3	51.5	44.8	38.2	31.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

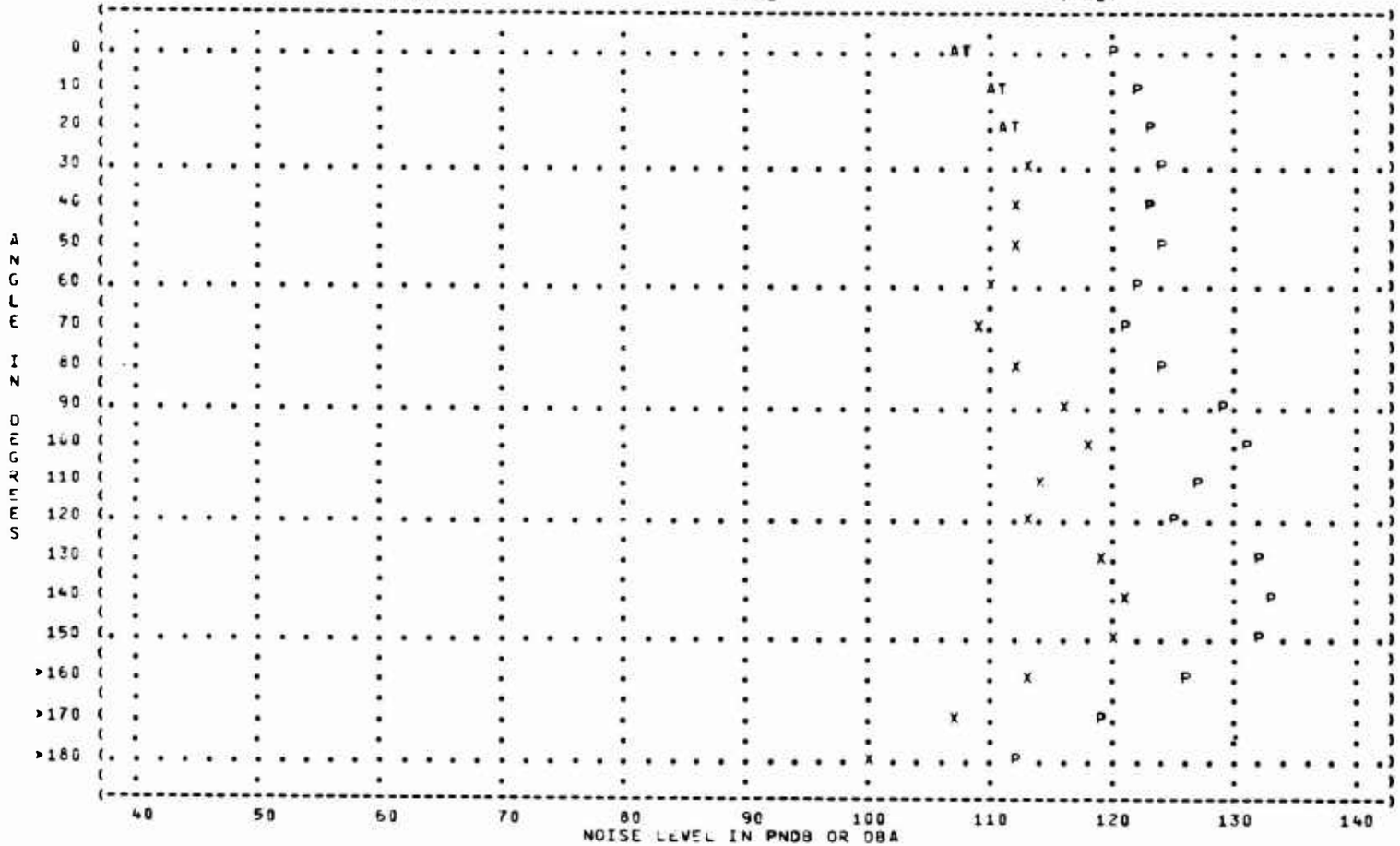
NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
94% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-004
RUN 04
AIRCRAFT CODE 133
OPERATION CODE 01006
PROFILE VERSION A
04 NOV 75
PAGE J4

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-012
RUN 01
AIRCRAFT CODE 133
OPERATION CODE 01031
PROFILE VERSION A
07 APR 76
PAGE C1

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
MAX POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
50	84	85	86	86	86	87	88	89	92	93	95	97	102	108	111	108	101	95	88
63	86	86	87	88	88	90	91	92	93	93	96	98	102	110	113	109	103	96	89
80	87	88	88	88	89	90	91	93	95	96	98	100	106	113	117	110	104	97	90
100	89	89	90	92	91	92	93	94	97	99	100	102	109	118	119	111	105	98	91
125	92	91	92	92	93	92	95	95	99	101	102	103	112	119	119	112	106	99	92
160	94	92	96	94	95	95	96	97	101	104	104	106	113	122	121	114	108	101	94
200	92	94	95	96	95	97	97	99	103	104	105	107	112	122	121	115	108	102	95
250	92	95	96	97	96	97	98	99	103	103	104	108	112	118	119	116	110	103	96
315	96	100	100	101	99	98	98	99	100	102	104	108	112	117	114	114	108	101	94
400	104	109	109	107	107	105	102	99	101	100	102	106	109	114	114	112	106	99	92
500	103	108	109	109	109	106	103	100	98	101	101	107	108	113	115	110	103	96	90
630	101	105	108	109	108	108	106	103	99	99	101	105	108	113	115	106	99	92	86
800	96	101	104	106	106	106	104	103	101	100	101	104	108	113	115	102	96	89	82
1000	94	99	102	104	104	103	101	101	102	102	102	104	110	112	114	100	94	87	80
1250	91	96	100	102	103	102	101	100	101	103	102	103	108	110	112	100	93	87	80
1600	91	96	99	102	103	102	101	101	102	103	104	104	107	111	112	99	93	86	79
2000	88	93	96	100	101	100	100	100	100	102	102	104	105	109	110	97	90	84	77
2500	87	92	95	99	100	100	100	100	100	101	103	106	105	108	109	96	90	83	76
3150	87	91	94	97	99	99	100	99	100	101	102	105	104	106	108	96	90	83	76
4000	83	88	92	95	96	97	97	98	98	99	101	102	102	105	106	93	86	80	73
5000	82	87	91	94	95	96	96	96	97	99	100	101	101	104	105	92	85	79	72
6300	78	83	88	90	92	93	93	94	94	96	97	98	98	101	103	89	82	76	69
8000	75	80	84	87	88	90	90	90	92	93	94	95	96	98	101	86	80	73	66
10000	68	73	78	81	83	85	84	85	85	87	88	90	91	96	98	83	77	70	63
OVERALL	109	114	115	116	116	115	113	113	113	114	115	118	122	129	129	124	117	110	104

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
MAX POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-012
RUN 01
AIRCRAFT CODE 133
OPERATION CODE 01031
PROFILE VERSION A
07 APR 76
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	119.4	123.7	125.5	126.6	127.2	127.2	126.9	126.6	127.4	128.4	129.5	132.1	133.4	138.0	138.8	131.3	124.7	118.0	111.3
250	117.3	121.6	123.3	124.5	125.0	125.0	124.6	124.4	125.2	126.2	127.3	129.8	131.2	135.9	136.6	129.2	122.6	115.9	109.2
315	115.1	119.4	121.2	122.3	122.8	122.7	122.3	122.1	122.9	123.9	125.0	127.5	129.0	133.7	134.4	127.1	120.4	113.8	107.1
400	112.9	117.3	119.0	120.1	120.5	120.3	120.0	119.8	120.5	121.5	122.6	125.2	126.7	131.4	132.1	125.0	118.3	111.6	104.9
500	110.7	115.0	116.7	117.8	118.1	117.9	117.5	117.3	118.0	119.0	120.1	122.7	124.3	129.0	129.6	122.7	116.0	109.3	102.6
630	108.4	112.7	114.4	115.4	115.7	115.4	114.9	114.8	115.4	116.4	117.5	120.1	121.8	126.5	127.1	120.2	113.5	106.8	100.0
800	106.0	110.3	112.0	113.0	113.2	112.8	112.2	112.1	112.7	113.6	114.8	117.4	119.2	123.9	124.5	117.7	111.0	104.3	97.4
1000	103.5	107.9	109.5	110.4	110.6	110.2	109.4	109.3	109.8	110.8	111.9	114.6	116.4	121.1	121.9	115.2	108.5	101.7	94.8
1250	100.9	105.3	106.9	107.7	107.9	107.4	106.4	106.2	106.7	107.7	108.8	111.5	113.4	118.1	119.0	112.2	105.5	98.7	91.8
1600	98.2	102.6	104.2	105.0	105.1	104.5	103.2	102.9	103.4	104.4	105.5	108.2	110.1	114.9	115.9	109.4	102.6	95.8	88.9
2000	95.4	99.8	101.3	102.0	102.2	101.5	100.1	99.3	99.8	101.0	101.9	104.6	106.7	111.8	112.6	106.4	99.6	92.7	85.8
2500	91.7	96.2	97.9	98.6	98.9	98.2	96.7	95.6	96.0	97.3	98.0	100.6	103.0	108.0	109.2	102.6	95.7	88.8	81.9
3150	87.6	92.3	94.1	95.0	95.1	94.7	93.1	91.7	91.9	93.2	93.8	96.2	99.0	103.9	105.2	98.2	91.4	84.5	77.6
4000	83.4	88.1	90.0	91.0	91.0	90.6	88.9	87.4	87.4	88.6	89.3	91.6	94.6	99.5	100.9	93.4	86.5	79.6	72.7
5000	78.7	83.6	85.4	86.4	86.4	86.0	84.3	82.6	82.5	83.7	84.3	86.7	90.1	94.9	96.3	88.6	81.7	74.8	67.7
6300	73.9	79.8	80.6	81.6	81.6	81.1	79.3	77.7	77.3	78.4	79.0	81.7	85.2	90.0	91.5	83.6	76.7	69.7	62.7
8000	70.1	75.0	76.8	77.5	77.4	77.0	75.1	73.3	72.8	73.1	73.9	77.5	80.8	85.9	87.3	80.0	73.0	66.0	58.8
10000	66.0	70.9	72.6	73.3	73.2	72.5	70.5	68.7	67.9	68.5	69.1	73.2	76.4	81.6	83.0	76.1	69.1	61.9	54.6
12500	61.5	66.5	68.1	68.7	68.5	67.5	65.5	63.6	62.6	63.6	64.3	68.5	71.8	77.3	78.6	71.9	64.8	57.5	49.9
16000	56.5	61.5	63.1	63.6	63.4	62.0	60.0	57.9	56.7	58.3	58.9	63.4	66.9	72.5	73.9	67.4	60.1	52.6	44.6
20000	51.0	55.9	57.6	57.9	57.7	55.8	53.7	51.7	50.6	52.4	53.1	57.7	61.4	67.4	68.7	62.4	54.8	47.0	38.2
25000	44.5	49.5	51.1	51.4	51.2	49.1	46.5	44.0	43.6	45.6	46.3	51.5	55.4	61.7	63.0	56.9	49.1	40.4	31.1

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-012
RUN 01
AIRCRAFT CODE 133
OPERATION CODE 01031
PROFILE VERSION A
07 APR 76
PAGE E1

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
MAX POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	120.2	124.6	126.3	126.6	127.2	127.7	126.9	126.6	127.4	128.4	129.5	132.1	133.4	138.0	138.8	131.3	124.7	118.0	111.3
250	118.1	122.4	124.1	124.5	125.0	125.5	124.6	124.4	125.2	126.2	127.3	129.8	131.2	135.9	136.6	129.2	122.6	115.9	109.2
315	115.9	120.3	122.0	122.3	122.8	123.2	122.3	122.1	122.9	123.9	125.0	127.5	129.0	133.7	134.4	127.1	120.4	113.8	107.1
400	113.7	118.1	119.8	120.1	120.5	120.8	120.0	119.8	120.5	121.5	122.6	125.2	126.7	131.4	132.1	125.0	118.3	111.6	104.9
500	111.5	115.9	117.5	117.8	118.1	118.4	117.5	117.3	118.0	119.0	120.1	122.7	124.3	129.0	129.6	122.7	116.0	109.3	102.6
630	109.2	113.6	115.2	115.4	115.7	115.9	114.9	114.8	115.4	116.4	117.5	120.1	121.8	126.5	127.1	120.2	113.5	106.8	100.0
800	106.8	111.2	112.8	113.0	113.2	113.3	112.2	112.1	112.7	113.6	114.8	117.4	119.2	123.9	124.5	117.7	111.0	104.3	97.4
1000	104.3	108.7	110.3	110.4	110.6	110.7	109.4	109.3	109.8	110.8	111.9	114.6	116.4	121.1	121.9	115.2	108.5	101.7	94.8
1250	101.8	106.2	107.7	107.7	107.9	107.9	106.4	106.2	106.7	107.7	108.8	111.5	113.4	118.1	119.0	112.2	105.5	98.7	91.8
1600	99.0	103.5	105.0	105.0	105.1	105.0	103.2	102.9	103.4	104.4	105.5	108.2	110.1	114.9	115.9	109.4	102.6	95.8	88.9
2000	96.2	100.7	102.1	102.0	102.2	102.0	100.1	99.3	99.8	101.0	101.9	104.6	106.7	111.8	112.6	106.4	99.6	92.7	85.8
2500	92.5	97.0	98.7	98.8	98.9	98.7	96.7	95.6	96.0	97.3	98.0	100.6	103.0	108.0	109.2	102.6	95.7	88.8	81.9
3150	88.4	93.1	94.9	95.0	95.1	95.2	93.1	91.7	91.9	93.2	93.8	96.2	99.0	103.9	105.2	98.2	91.4	84.5	77.6
4000	84.0	88.8	90.6	91.0	91.0	91.0	88.9	87.4	87.4	88.6	89.3	91.6	94.6	99.5	100.9	93.4	86.5	79.6	72.7
5000	79.2	84.1	85.9	86.4	86.4	86.3	84.3	82.6	82.5	83.7	84.3	86.7	90.1	94.9	96.3	88.6	81.7	74.8	67.7
6300	74.2	79.1	80.9	81.6	81.6	81.3	79.3	77.7	77.3	78.4	79.0	81.7	85.2	90.0	91.5	83.6	76.7	69.7	62.7
8000	70.3	75.2	76.9	77.5	77.4	77.1	75.1	73.3	72.8	73.1	73.9	77.5	80.8	85.9	87.3	80.0	73.3	66.0	58.8
10000	66.0	70.9	72.6	73.3	73.2	72.5	70.5	68.7	67.9	68.5	69.1	73.2	76.4	81.6	83.0	76.1	69.1	61.9	54.6
12500	61.5	66.5	68.1	68.7	68.5	67.5	65.5	63.6	62.6	63.6	64.3	68.5	71.8	77.3	78.6	71.9	64.8	57.5	49.9
16000	56.5	61.5	63.1	63.6	63.4	62.0	60.0	57.9	56.7	58.3	58.9	63.4	66.9	72.5	73.9	67.4	60.1	52.6	44.6
20000	51.0	55.9	57.6	57.9	57.7	55.8	53.7	51.7	50.6	52.4	53.1	57.7	61.4	67.4	68.7	62.4	54.8	47.0	38.2
25000	44.5	49.5	51.1	51.4	51.2	49.1	46.5	44.0	43.6	45.6	46.3	51.5	55.4	61.7	63.0	56.9	49.1	40.4	31.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
MAX POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-012
RUN 01
AIRCRAFT CODE 133
OPERATION CODE 01031
PROFILE VERSION A
07 APR 76
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	107.8	112.7	114.8	116.0	116.2	115.6	114.2	113.5	113.6	114.6	115.4	117.7	120.1	124.4	125.5	117.7	111.0	104.3	97.7
250	105.7	110.6	112.7	113.9	114.1	113.5	112.1	111.4	111.5	112.4	113.2	115.5	118.0	122.3	123.4	115.6	108.9	102.3	95.6
315	103.6	108.5	110.6	111.8	111.9	111.3	109.9	109.2	109.2	110.2	110.9	113.3	115.8	120.1	121.2	113.5	106.9	100.2	93.5
400	101.5	106.4	108.5	109.6	109.8	109.1	107.7	106.9	107.0	107.9	108.6	111.0	113.6	118.0	119.1	111.4	104.8	98.1	91.4
500	99.4	104.3	106.4	107.4	107.6	106.9	105.4	104.6	104.7	105.6	106.3	108.7	111.4	115.7	116.8	109.3	102.6	96.0	89.3
630	97.2	102.2	104.2	105.2	105.4	104.7	103.1	102.3	102.3	103.2	103.9	106.3	109.1	113.4	114.5	107.0	100.4	93.7	87.0
800	95.1	100.0	102.0	103.0	103.1	102.4	100.8	99.9	99.8	100.7	101.4	103.9	106.7	111.0	112.2	104.7	98.0	91.4	84.7
1000	92.8	97.8	99.7	100.7	100.7	100.0	98.3	97.4	97.3	98.1	98.8	101.3	104.3	108.6	109.7	102.3	95.6	89.0	82.3
1250	90.5	95.5	97.4	98.3	98.3	97.6	95.8	94.8	94.6	95.4	96.1	98.6	101.7	106.0	107.2	99.7	93.0	86.4	79.7
1600	88.2	93.1	95.0	95.9	95.9	95.1	93.2	92.1	91.9	92.6	93.3	95.9	99.1	103.3	104.5	97.0	90.3	83.7	77.0
2000	85.8	90.7	92.6	93.3	93.3	92.5	90.6	89.3	89.0	89.7	90.3	93.0	96.3	100.5	101.8	94.2	87.6	80.9	74.2
2500	82.8	87.8	89.8	90.6	90.5	89.6	87.7	86.4	85.9	86.6	87.1	89.9	93.3	97.4	98.8	91.0	84.3	77.6	71.0
3150	79.5	84.5	86.6	87.5	87.4	86.6	84.6	83.2	82.6	83.2	83.7	86.5	90.0	94.1	95.6	87.3	80.6	74.0	67.3
4000	75.8	80.8	83.0	83.9	83.8	83.1	81.1	79.6	79.0	79.5	80.0	82.7	86.4	90.4	92.1	83.2	76.6	69.9	63.2
5000	71.5	76.6	78.8	79.9	79.8	79.0	77.0	75.6	74.9	75.3	75.9	78.6	82.4	86.3	88.1	78.8	72.1	65.5	58.8
6300	67.1	72.2	74.5	75.6	75.4	74.7	72.7	71.3	70.5	70.9	71.4	74.1	78.1	82.0	83.8	74.2	67.6	60.9	54.2
8000	63.5	68.6	70.8	71.8	71.6	70.8	68.7	67.1	66.2	66.5	67.1	70.1	74.0	78.0	79.8	70.7	64.1	57.4	50.7
10000	59.7	64.7	66.8	67.6	67.4	66.6	64.4	62.6	61.5	61.7	62.4	65.7	69.5	73.7	75.4	67.0	60.3	53.7	47.0
12500	55.4	60.4	62.4	63.1	62.9	61.9	59.6	57.7	56.4	56.6	57.4	61.0	64.6	69.1	70.7	63.0	56.3	49.6	43.0
16000	50.7	55.7	57.6	58.1	57.8	56.8	54.4	52.3	50.8	51.1	52.0	55.9	59.4	64.0	65.5	58.6	51.9	45.2	38.6
20000	45.5	50.4	52.1	52.5	52.2	51.0	48.5	46.2	44.8	45.3	46.3	50.4	53.7	58.7	59.9	53.8	47.2	40.5	33.8
25000	39.6	44.5	46.1	46.2	45.9	44.5	41.9	39.6	38.4	39.1	40.1	44.4	47.7	53.2	54.0	48.7	42.0	35.4	28.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-012
RUN 01
AIRCRAFT CODE 133
OPERATION CODE 01031
PROFILE VERSION A
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NOISE SOURCE/SUBJECT:
A-7E AIRCRAFT
ENG. TF-41
GROUND RUNUP

OPERATION:
MAX POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	108.6	113.5	115.6	116.0	116.2	116.1	114.2	113.5	113.6	114.6	115.4	117.7	120.1	124.4	125.5	117.7	111.0	104.3	97.7
250	106.5	111.5	113.5	113.9	114.1	114.0	112.1	111.4	111.5	112.4	113.2	115.5	118.0	122.3	123.4	115.6	108.9	102.3	95.6
315	104.4	109.4	111.4	111.8	111.9	111.8	109.9	109.2	109.2	110.2	110.9	113.3	115.8	120.1	121.2	113.5	106.9	100.2	93.5
400	102.3	107.3	109.3	109.6	109.8	109.7	107.7	106.9	107.0	107.9	108.6	111.0	113.6	118.0	119.1	111.4	104.8	98.1	91.4
500	100.2	105.2	107.2	107.4	107.6	107.4	105.4	104.6	104.7	105.6	106.3	108.7	111 4	115.7	116.8	109.3	102.6	96.0	89.3
630	98.1	103.0	105.0	105.2	105.4	105.2	103.1	102.3	102.3	103.2	103.9	106.3	109.1	113.4	114.5	107.0	100.4	93.7	87.0
800	95.9	100.8	102.8	103.0	103.1	102.9	100.8	99.9	99.8	100.7	101.4	103.9	106.7	111.0	112.2	104.7	98.0	91.4	84.7
1000	93.7	98.6	100.5	100.7	100.7	100.5	98.3	97.4	97.3	98.1	98.8	101.3	104.3	108.6	109.7	102.3	95.6	89.0	82.3
1250	91.4	96.3	98.2	98.3	98.3	98.1	95.8	94.8	94.6	95.4	96.1	98.6	101.7	106.0	107.2	99.7	93.0	86.4	79.7
1600	89.0	94.0	95.8	95.9	95.9	95.6	93.2	92.1	91.9	92.6	93.3	95.9	99.1	103.3	104.5	97.0	90.3	83.7	77.0
2000	86.6	91.5	93.4	93.3	93.3	93.0	90.6	89.3	89.0	89.7	90.3	93.0	96.3	100.5	101.8	94.2	87.6	80.9	74.2
2500	83.7	88.6	90.6	90.6	90.5	90.2	87.7	86.4	85.9	86.6	87.1	89.9	93.3	97.4	98.8	91.0	84.3	77.6	71.0
3150	80.3	85.3	87.4	87.5	87.4	87.1	84.6	83.2	82.6	83.2	83.7	86.5	90.0	94.1	95.6	87.3	80.6	74.0	67.3
4000	76.4	81.4	83.6	83.9	83.8	83.5	81.1	79.6	79.0	79.5	80.0	82.7	86.4	90.4	92.1	83.2	76.6	69.9	63.2
5000	72.0	77.1	79.3	79.9	79.8	79.4	77.0	75.6	74.9	75.3	75.9	78.6	82.4	86.3	88.1	78.8	72.1	65.5	58.8
6300	67.4	72.5	74.8	75.6	75.4	74.9	72.7	71.3	70.5	70.9	71.4	74.1	78.1	82.0	83.8	74.2	67.6	60.9	54.2
8000	63.7	68.7	71.0	71.8	71.6	70.9	68.7	67.1	66.2	66.5	67.1	70.1	74.0	78.0	79.8	70.7	64.1	57.4	50.7
10000	59.7	64.7	66.8	67.6	67.4	66.6	64.4	62.6	61.5	61.7	62.4	65.7	69.5	73.7	75.4	67.0	60.3	53.7	47.0
12500	55.4	60.4	62.4	63.1	62.9	61.9	59.6	57.7	56.4	56.6	57.4	61.0	64.6	69.1	70.7	63.0	56.3	49.6	43.0
16000	50.7	55.7	57.6	58.1	57.8	56.8	54.4	52.3	50.8	51.1	52.0	55.9	59.4	64.0	65.5	58.6	51.9	45.2	38.6
20000	45.5	50.4	52.1	52.5	52.2	51.0	48.5	46.2	44.8	45.3	46.3	50.4	53.7	58.7	59.9	53.8	47.2	40.5	33.8
25000	39.6	44.5	46.1	46.2	45.9	44.5	41.9	39.6	38.4	39.1	40.1	44.4	47.7	53.2	54.0	48.7	42.0	35.4	28.7

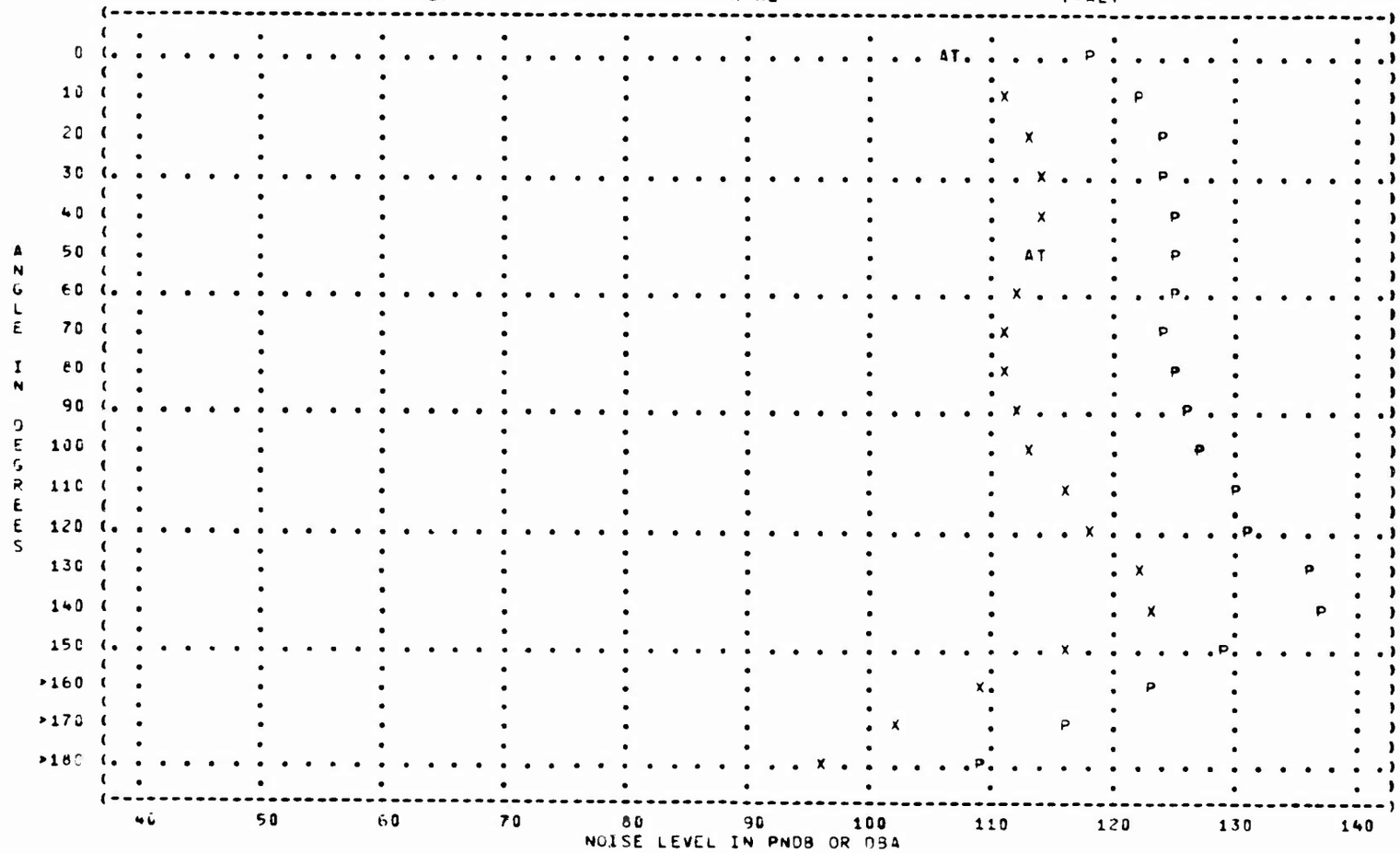
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:	IDENTIFICATION:
A-7E AIRCRAFT	MAX POWER	TEMP = 59 F	OMEGA 8.2
ENG. TF-41	SINGLE ENGINE	BAR PRESS = 29.92 IN HG	TEST 74-004-012
GROUND RUNUP		REL HUMID = 70 %	RUN 01
		DELTA N = 0.0 DB	AIRCRAFT CODE 133
			OPERATION CODE 01031
			PROFILE VERSION A
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P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF A-10A AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

A-10A AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 037
PROFILE VERSION: B
COMPUTER PROGRAM OMEGA 6.6

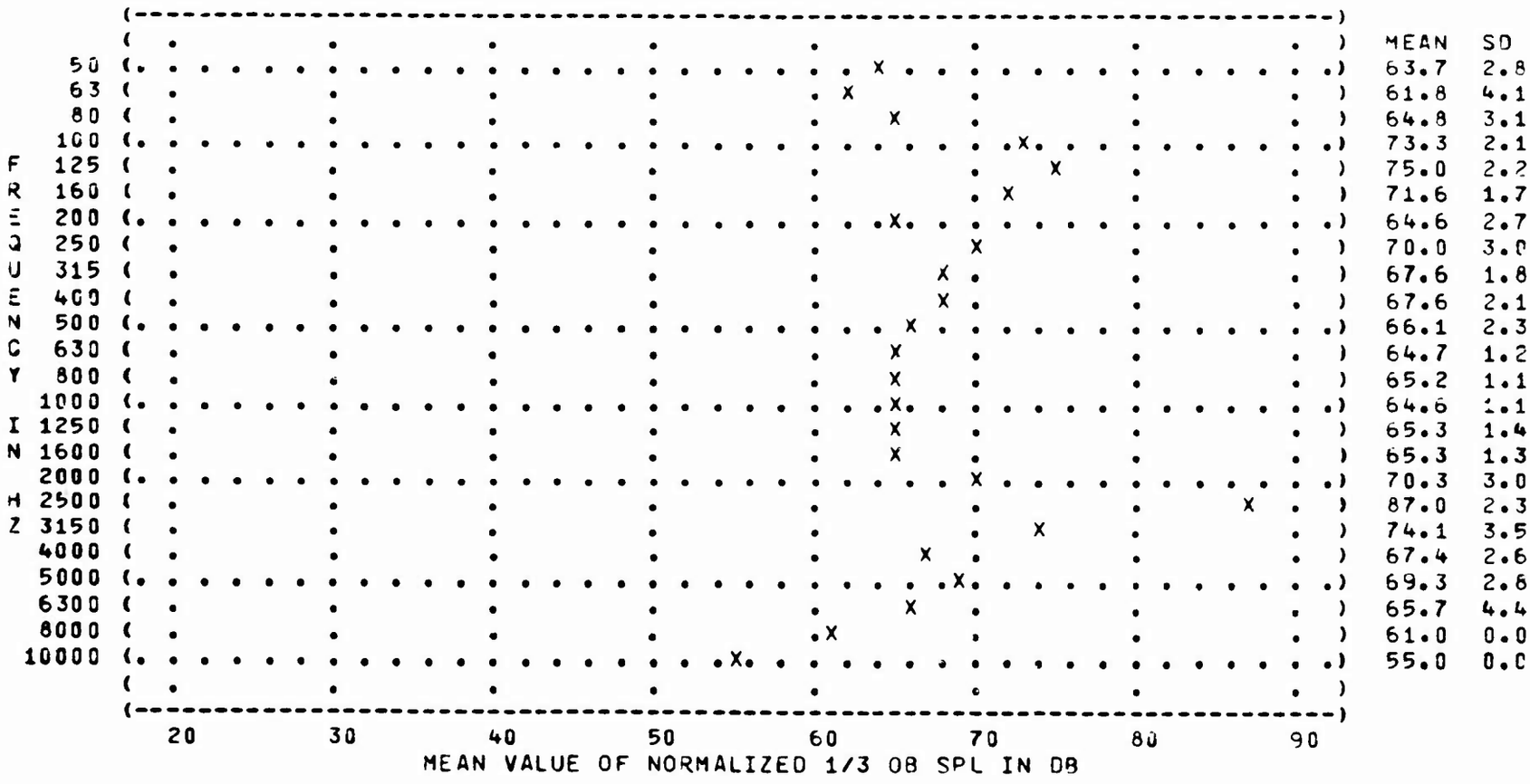
POWER SETTING	PAGE
APPROACH, 5225NF, 638C ITT	64-72
MAX RATED THRUST, 6700NF, 826C ITT	73-81
NORMAL RATED THRUST, 6200NF, 756C ITT	82-90
TRAFFIC PATTERN, 5325NF, 646C ITT	91-99

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
- AIR-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
- GROUND-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

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AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO



A-10A APPROACH POWER 5225 NF 638 C ITT

AIRSPEED = 150 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-037-105-180877

PNLT = 107.8 PNDB
PNL = 102.8 PNDB
ALT = 93.8 DBA
AL = 88.9 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 037
OPS CODE: 105
PROFILE VER: B
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AIRCRAFT: A-10A

OPERATION:
APPROACH POWER
5225 NF 638 C ITT
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	78	76	79	87	89	86	79	84	82	82	81	79	80	80	81	81	87	104	93	88	91	90	90	91
250	76	74	77	85	87	84	77	82	80	80	79	77	78	78	79	79	85	102	90	85	88	87	87	88
315	74	72	75	83	85	82	75	80	78	78	77	75	76	76	77	77	82	100	88	83	86	85	84	84
400	72	70	73	81	83	80	73	78	76	76	75	73	74	74	74	75	80	97	85	80	83	82	80	80
500	70	68	71	79	81	78	71	76	74	74	73	71	72	71	72	73	78	95	83	77	80	78	76	75
630	68	66	69	77	79	76	69	74	72	72	70	69	70	69	70	70	75	93	80	74	77	75	72	69
800	66	64	67	75	77	74	67	72	70	70	68	67	67	67	68	68	73	90	77	71	73	70	67	63
1000	64	62	65	73	75	72	65	70	68	68	66	65	65	65	65	65	70	87<	74	67	69	66	61	55
1250	62	60	63	71	73	70	63	68	65	65	64	62	63	62	63	63	67	84	71	63	65	60	54	46
1600	60	58	61	69	71	68	60	66	63	63	62	60	61	60	60	60	64	81	67	59	60	54	46	35
2000	58	56	59	67	69	65	58	64	61	61	59	58	58	57	57	57	61	77	63	54	54	47	36	22
2500	56	54	57	65	67	63	56	61	59	59	57	55	55	54	54	54	58	73	58	48	47	38	25	5
3150	54	52	55	63	65	61	54	59	57	56	55	53	53	51	51	50	54	68	52	41	40	28	10	
4000	52	50	52	61	62	59	52	57	54	54	52	50	50	48	48	46	49	63	46	32	30	15		
5000	49	47	50	59	60	57	49	54	52	51	49	47	46	45	44	42	44	57	38	22	19			
6300	47	45	48	57	58	54	47	52	49	48	46	44	43	41	39	38	38	49	29	10	5			
8000	45	43	46	54	56	52	45	49	46	46	43	40	39	36	34	30	31	41	18					
10000	43	41	44	52	53	50	42	47	43	42	39	36	35	31	28	24	22	30	4					
12500	41	39	42	50	51	47	39	44	40	39	36	32	29	25	22	15	12	18						
16000	39	36	39	47	48	44	36	41	37	35	31	27	24	18	13	5	0	2						
20000	36	34	37	45	46	41	33	37	33	30	26	21	17	10	4									
25000	34	32	34	42	43	38	30	33	29	25	20	14	9	1										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
A-10A

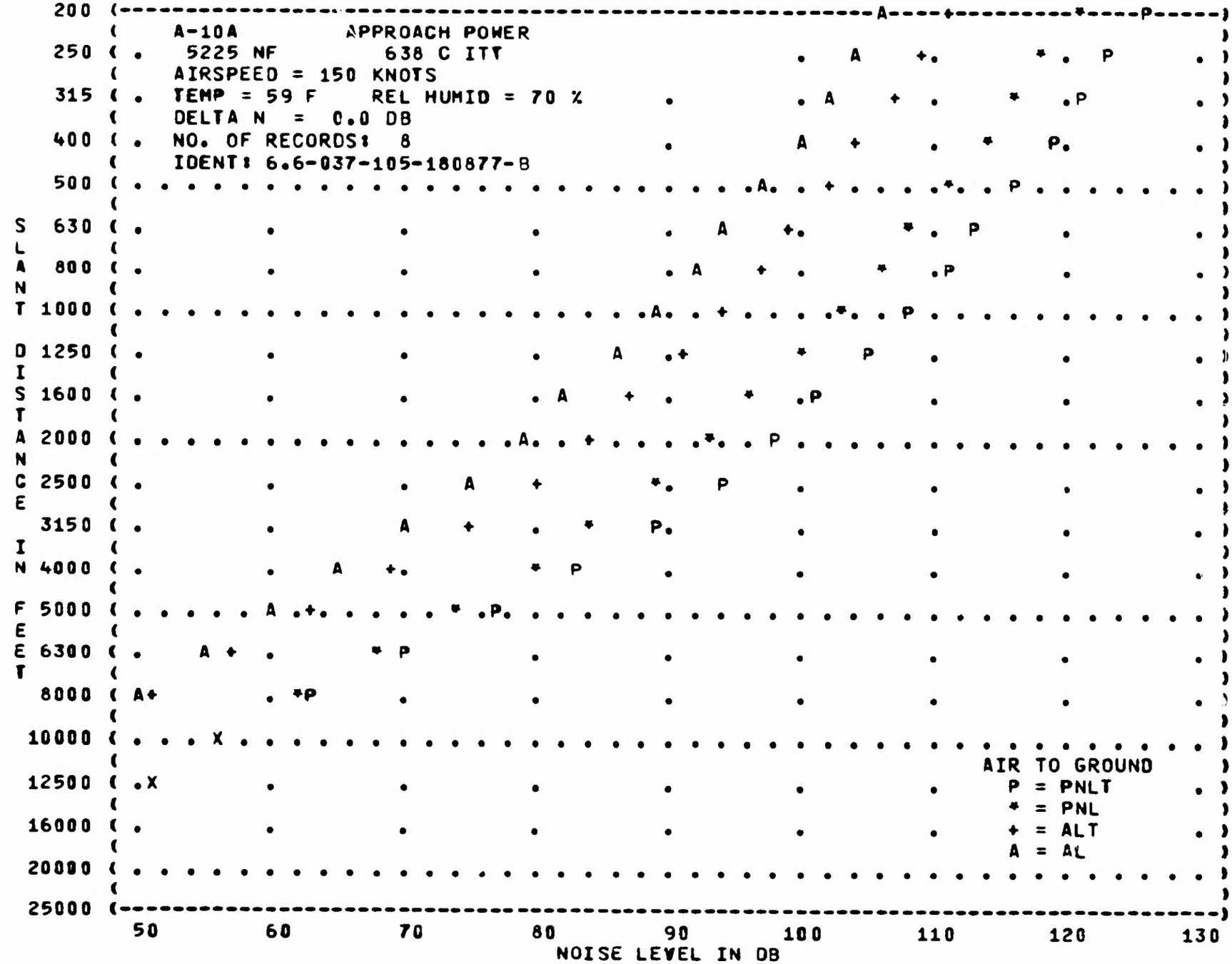
OPERATION:
APPROACH POWER
5225 NF 638 C ITT
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 037
OPS CODE: 105
PROFILE VER: 9
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	106.5	111.4	120.6	125.6	102.2	106.1	110.6
250	104.2	109.2	118.4	123.3	100.9	104.8	109.3
315	101.9	106.9	116.0	121.0	99.6	103.5	108.0
400	99.5	104.5	113.6	118.6	98.2	102.1	106.6
500	97.1	102.0	111.1	116.1	96.8	100.6	105.1
630	94.5	99.4	108.5	113.5	95.2	99.1	103.4
800	91.8	96.7	105.7	110.7	93.5	97.4	101.7
1000	88.9	93.8	102.8	107.8	91.6	95.5	99.7
1250	85.8	90.8	99.7	104.6	89.5	93.4	97.6
1600	82.5	87.4	96.3	101.3	87.2	91.1	95.3
2000	78.8	83.8	92.7	97.6	84.5	88.4	92.6
2500	74.8	79.8	88.7	93.6	81.5	85.4	89.6
3150	70.4	75.3	84.3	89.3	78.1	81.9	86.3
4000	65.4	69.4	79.5	83.5	74.1	77.2	81.7
5000	60.1	63.1	74.2	77.1	69.8	72.2	76.6
6300	54.9	56.8	68.3	70.2	65.6	67.1	70.9
8000	50.2	51.2	61.8	62.8	61.9	62.7	64.6
10000	46.4	46.4	55.7	55.7	59.1	59.1	58.8
12500	42.9	42.9	51.2	51.2	56.6	56.6	55.3
16000	39.4	39.4	46.0	46.0	54.1	54.1	51.0
20000	35.9	35.9	41.0	41.0	51.6	51.6	47.1
25000	32.2	32.2	35.6	35.6	48.9	48.9	42.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-10A APPROACH POWER
5225 NF 638 C ITT
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-037-105-180877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

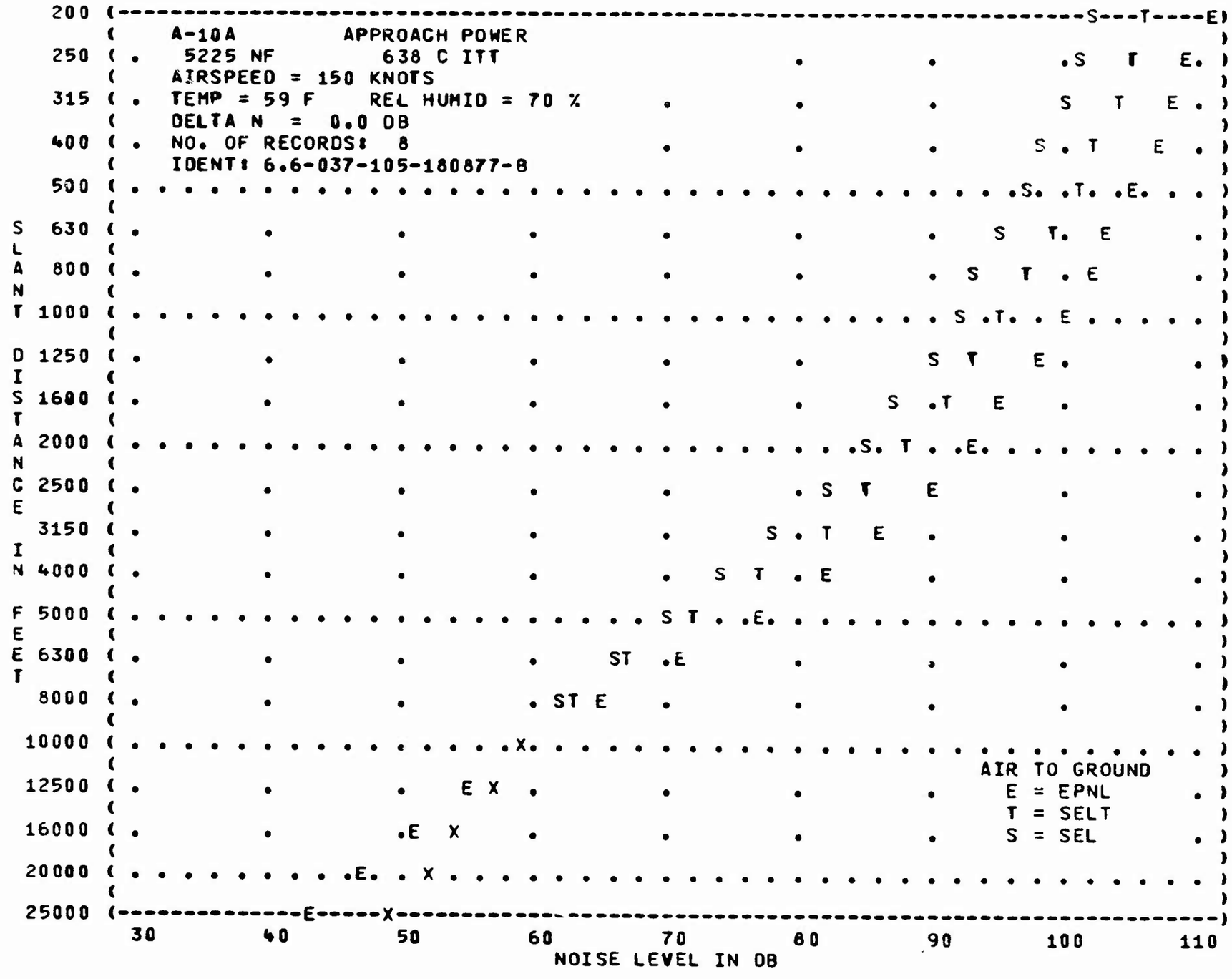

A-10A APPROACH POWER
5225 NF 638 C ITT
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-037-105-180877-8
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

AIRCRAFT: A-10A

OPERATION: APPROACH POWER, 5225 NF, 638 C ITT, AIRSPEED = 150 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

IDENTIFICATION: OMEGA 6.6, A/C CODE: 037, OPS CODE: 105, PROFILE VER: B, 18 AUG 77, PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	73	71	74	82	84	81	74	79	77	77	76	74	75	75	76	76	82	99	88	83	86	85	85	86
250	71	69	72	80	82	79	72	77	75	75	74	72	73	73	74	74	80	97	85	80	83	82	82	83
315	69	67	70	78	80	77	70	75	73	73	72	70	71	71	72	72	77	95	83	78	81	80	79	79
400	67	65	68	76	78	75	68	73	71	71	70	68	69	69	69	70	75	92	80	75	78	77	75	75
500	65	63	66	74	76	72	65	71	69	69	68	66	67	66	67	68	73	90	78	72	75	73	71	70
630	63	61	64	72	73	70	63	68	67	67	65	64	65	64	65	65	70	88	75	69	72	70	67	64
800	61	59	62	70	71	67	60	66	65	65	63	62	62	62	63	63	68	85	72	66	68	65	62	58
1000	59	57	60	67	68	64	57	63	62	63	61	60	60	60	60	60	65	82<	69	62	64	61	56	50
1250	57	55	57	64	65	61	54	60	59	60	59	57	58	57	58	58	62	79	66	58	60	55	49	41
1600	55	52	53	60	61	57	50	56	56	58	57	55	56	55	55	55	59	76	62	54	55	49	41	30
2000	52	48	50	57	57	53	46	52	53	56	54	53	53	52	52	52	56	72	58	49	49	42	31	17
2500	48	44	46	52	53	49	42	48	49	52	52	50	50	49	49	49	53	68	53	43	42	33	20	0
3150	44	40	41	48	48	44	37	43	44	48	49	48	48	46	46	45	49	63	47	36	35	23	5	
4000	40	35	36	42	42	39	31	37	39	43	45	44	45	43	43	41	44	58	41	27	25	10		
5000	34	30	31	37	38	34	26	32	33	38	41	40	41	40	39	37	39	52	33	17	14			
6300	29	25	26	33	33	29	22	27	27	32	36	36	37	36	34	31	33	44	24	5				
8000	27	23	24	30	31	27	19	24	24	30	33	32	33	31	29	25	26	36	13					
10000	25	21	22	28	28	24	16	22	21	26	29	28	29	26	23	19	17	25						
12500	23	19	20	26	26	21	14	19	18	23	26	24	23	20	17	10	7	13						
16000	21	16	17	23	23	19	11	16	15	19	21	19	18	13	8	0								
20000	18	14	15	21	21	16	8	12	11	14	16	13	11	5										
25000	16	12	12	18	18	13	4	8	7	9	10	6	3											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
A-10A

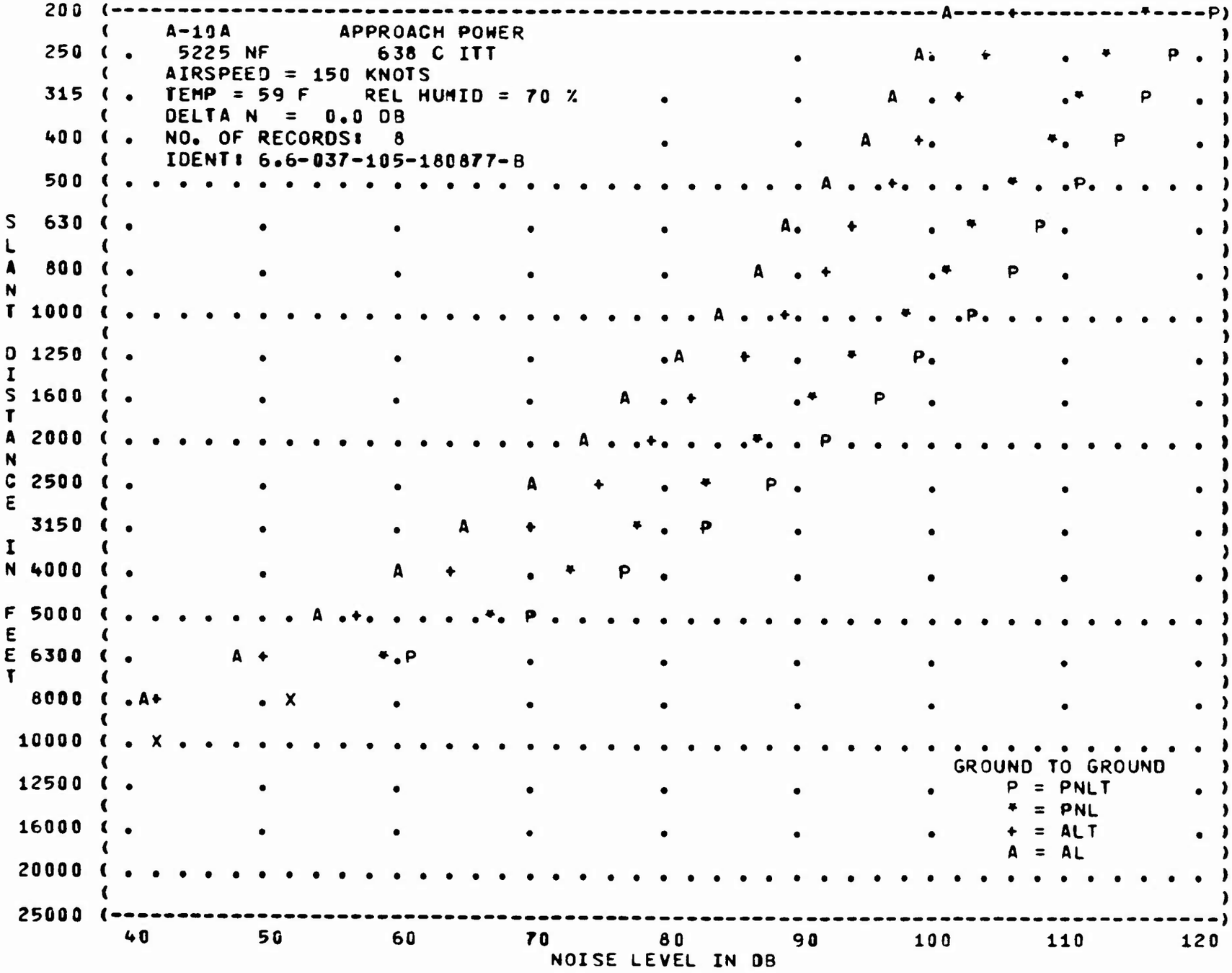
OPERATION:
APPROACH POWER
5225 NF 638 C ITT
AIRSPEED = 150 KNOTS

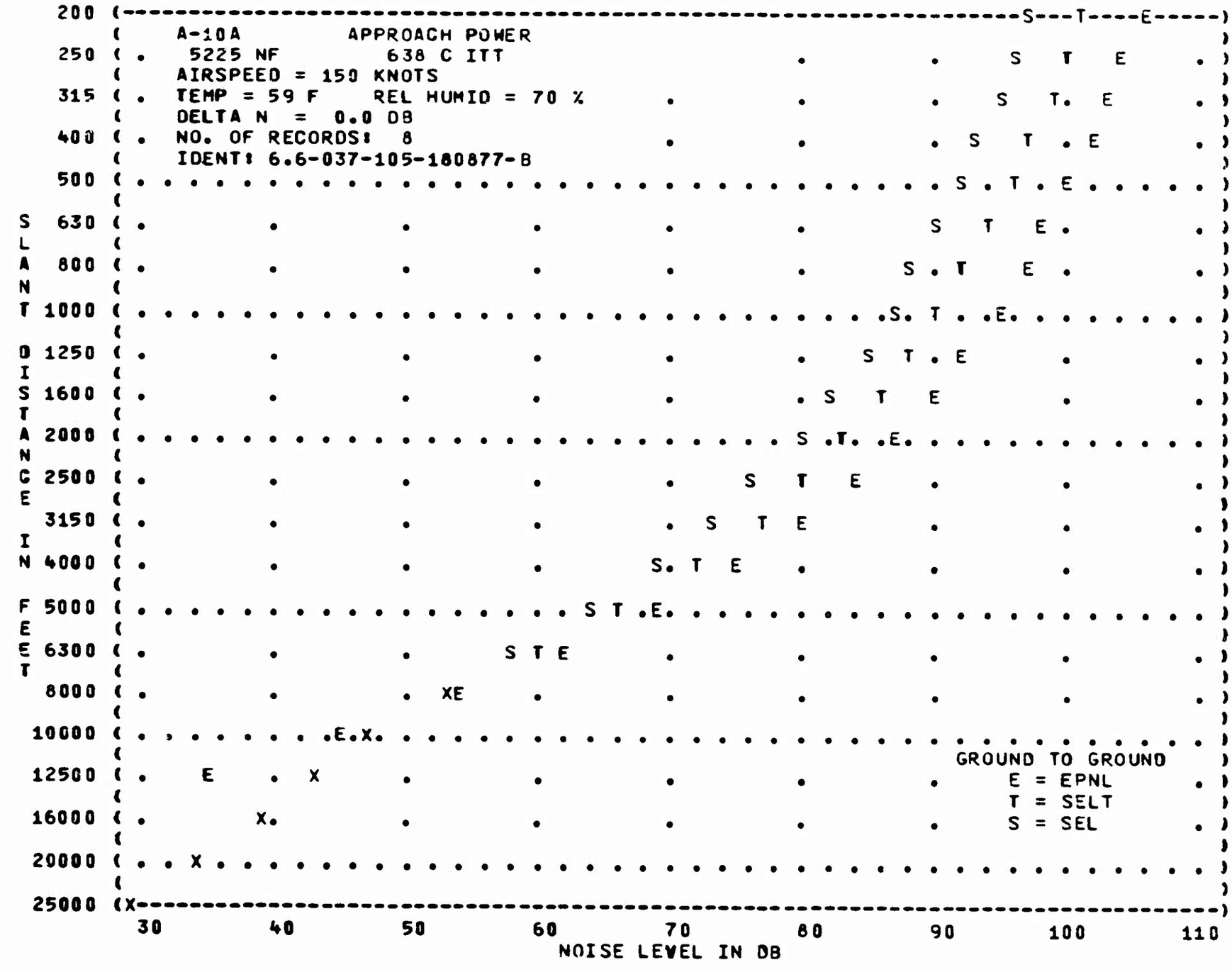
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

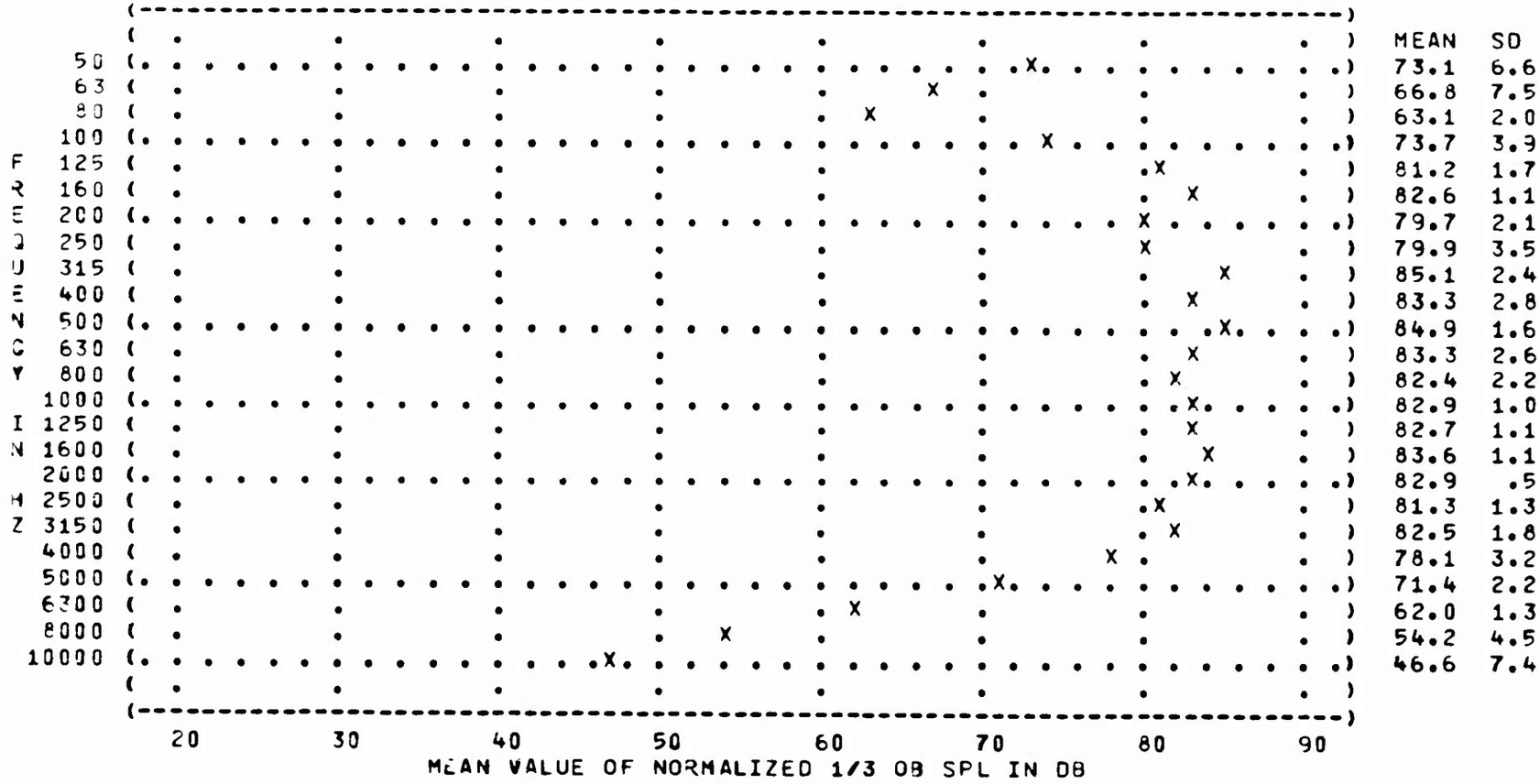
A/C CODE: 037
OPS CODE: 105
PROFILE VER: B
18 AUG 77
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	101.5	106.4	115.6	120.6	97.2	101.1	105.6
250	99.2	104.2	113.4	118.3	95.9	99.8	104.3
315	96.9	101.9	111.0	116.0	94.6	98.5	103.0
400	94.5	99.5	108.6	113.6	93.2	97.1	101.6
500	92.1	97.0	106.1	111.0	91.8	95.6	100.0
630	89.5	94.4	103.4	108.4	90.2	94.1	98.4
800	86.8	91.7	100.6	105.6	88.5	92.4	96.6
1000	83.9	88.8	97.6	102.6	86.6	90.5	94.6
1250	80.8	85.8	94.4	99.3	84.5	88.4	92.3
1600	77.5	82.4	90.9	95.9	82.2	86.1	89.8
2000	73.8	78.8	87.1	92.0	79.5	83.4	87.0
2500	69.7	74.7	82.9	87.8	76.4	80.3	83.8
3150	65.2	70.1	78.1	83.1	72.9	76.8	80.1
4000	60.0	64.0	72.7	76.7	68.7	71.8	74.9
5000	54.2	57.1	66.7	69.6	63.9	66.2	69.0
6300	47.6	49.6	59.5	61.4	58.3	59.9	62.1
8000	41.0	41.9	51.5	52.5	52.7	53.4	54.3
10000	34.7	34.7	41.8	41.8	47.4	47.4	44.8
12500	29.2	29.2	30.5	30.5	42.9	42.9	34.6
16000	23.8	23.8	19.8	19.8	38.5	38.5	24.9
20000	18.3	18.3	6.9	6.9	34.0	34.0	12.9
25000	12.5	12.5			29.2	29.2	1.0

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-10A APPROACH POWER
5225 NF 638 C ITT
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-037-105-180877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


A-10A APPROACH POWER
5225 NF 638 C ITT
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-037-105-180877-B
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB



A-10A MAX RATED THRUST 6700 NF 826 C ITT

AIRSPEED = 350 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 4

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-037-111-180877

PNLT = 106.5 PNDB
PNL = 105.9 PNDB
ALT = 93.7 DBA
AL = 93.2 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-10A

OPERATION:
MAX RATED THRUST
6700 NF 826 C ITT
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
A/C CODE: 037
OPS CODE: 111
PROFILE VER: B
18 AUG 77
PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	87	81	77	88	95	97	94	94	100	98	100	98	98	98	98	100	100	99	101	99	94	88	85	86
250	85	79	75	86	93	95	92	92	98	96	98	96	95	96	96	98	98	97	99	97	91	85	82	82
315	83	77	73	84	91	93	90	90	95	94	95	94	93	94	94	95	95	94	97	94	88	82	79	78
400	81	75	71	82	89	91	88	88	93	92	93	92	91	92	92	93	93	92	94	91	86	79	75	73
500	79	73	69	80	87	89	86	86	91	90	91	90	89	90	90	91	91	90	92	89	83	75	71	68
630	77	71	67	78	85	87	84	84	89	88	89	88	87	87	88	89	88	87	89	85	79	71	66	62
800	75	69	65	76	83	85	82	82	87	85	87	85	85	85	85	86	86	84	86	82	75	67	61	55
1000	73	67	63	74	81	83	80	80	85<	83	85	83	82	83	83	84	83	81	82	78	71	62	54	47
1250	71	65	61	72	79	81	78	78	83	81	83	81	80	80	80	81	80	78	79	74	67	56	47	36
1600	69	63	59	70	77	78	75	76	81	79	80	79	78	78	77	78	77	75	75	69	61	49	38	24
2000	67	61	57	68	75	76	73	74	79	77	78	76	75	75	75	75	73	71	70	63	55	41	27	9
2500	65	59	55	65	73	74	71	71	76	74	76	74	72	72	71	71	70	66	65	57	48	32	14	
3150	63	57	53	63	71	72	69	69	74	72	73	71	69	69	68	68	65	61	59	49	39	20		
4000	61	55	51	61	69	70	67	67	72	69	70	68	66	66	64	63	60	55	52	40	28	6		
5000	59	52	49	59	66	68	64	64	69	67	67	65	63	62	60	58	55	49	43	29	15			
6300	57	50	46	57	64	65	62	62	66	64	64	62	59	58	55	53	48	41	33	15				
8000	55	48	44	55	62	63	59	59	64	61	61	58	55	53	50	46	40	31	21					
10000	52	46	42	52	59	60	57	56	60	57	57	54	50	48	43	39	31	19	6					
12500	50	44	40	50	57	58	54	53	57	54	53	49	45	41	36	29	20	5						
16000	48	41	37	47	54	55	51	50	53	49	48	43	38	34	27	18	6							
20000	46	39	35	45	51	52	47	46	49	45	43	37	31	25	16	5								
25000	43	36	32	42	48	48	44	42	45	39	36	30	22	14	3									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
A-10A

OPERATION:
MAX RATED THRUST
6700 NF 826 C ITT
AIRSPEED = 350 KNOTS

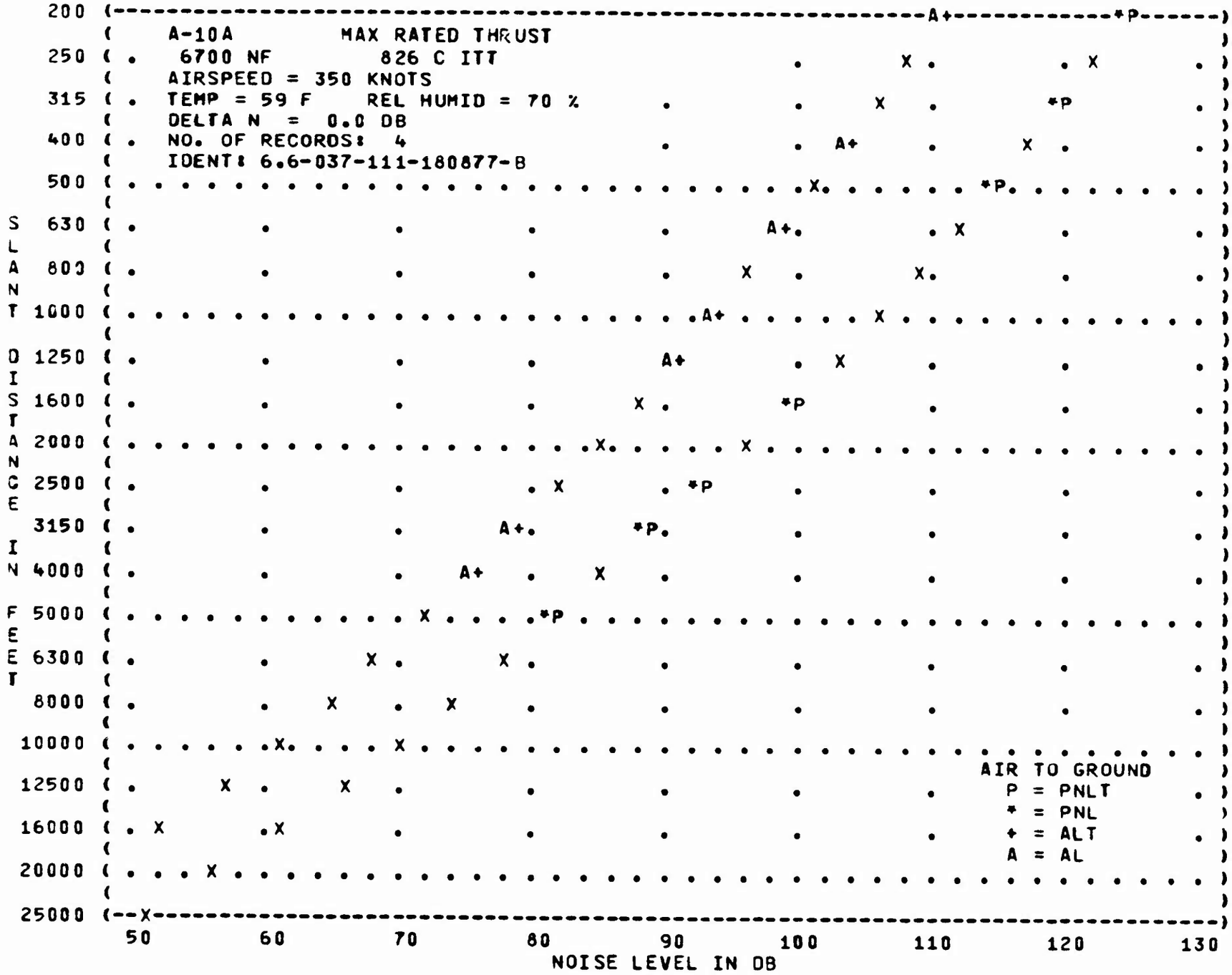
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

DELTA N = 0.0 DB

A/C CODE: 037
OPS CODE: 111
PROFILE VER: B
18 AUG 77
PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	110.0	110.6	124.0	124.6	107.3	108.7	112.3
250	107.8	108.4	121.7	122.3	106.1	107.5	111.0
315	105.5	106.1	119.3	119.9	104.8	106.3	109.7
400	103.2	103.8	116.9	117.5	103.5	104.9	108.2
500	100.8	101.4	114.3	114.9	102.1	103.5	106.7
630	98.4	98.9	111.7	112.3	100.6	102.1	105.0
800	95.8	96.4	108.9	109.4	99.0	100.5	103.2
1000	93.2	93.7	105.9	106.5	97.4	98.9	101.2
1250	90.4	91.0	102.7	103.3	95.7	97.1	99.0
1600	87.6	88.1	99.2	99.8	93.8	95.3	96.6
2000	84.6	85.2	95.6	96.2	91.8	93.3	94.0
2500	81.5	82.1	92.1	92.7	89.8	91.3	91.4
3150	78.4	78.9	88.3	88.9	87.6	89.1	88.7
4000	75.1	75.6	84.8	85.2	85.3	86.5	85.8
5000	71.7	72.0	81.2	81.5	82.9	83.8	83.0
6300	68.2	68.4	77.5	77.8	80.4	81.0	80.0
8000	64.5	64.6	73.8	73.9	77.8	78.0	76.9
10000	60.7	60.7	69.8	69.8	74.9	74.9	73.7
12500	56.7	56.7	65.6	65.6	71.9	71.9	70.4
16000	52.4	52.4	61.0	61.0	68.7	68.7	66.8
20000	47.9	47.9	56.2	56.2	65.2	65.2	63.0
25000	43.1	43.1	50.7	50.7	61.4	61.4	58.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-10A MAX RATED THRUST
6700 NF 826 C ITT
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-037-111-180877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

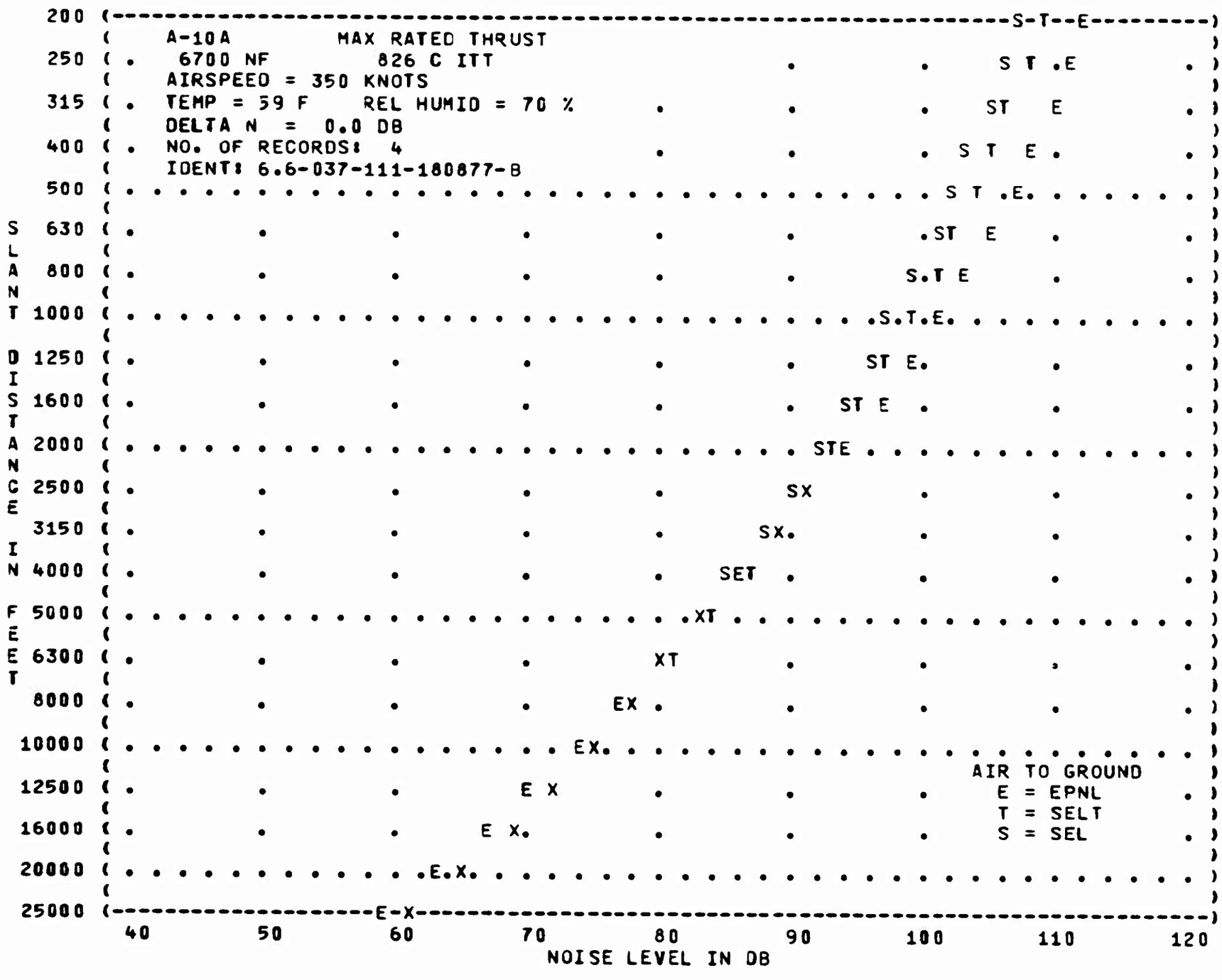

A-10A MAX RATED THRUST
6700 NF 826 C ITT
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-037-111-180877-B
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-10A

OPERATION:
MAX RATED THRUST
6700 NF 826 C ITT
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 037
OPS CODE: 111
PROFILE VER: B
18 AUG 77
PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	82	76	72	83	90	92	89	89	95	93	95	93	93	93	93	95	95	94	96	94	89	83	80	81
250	80	74	70	81	88	90	87	87	93	91	93	91	90	91	91	93	93	92	94	92	86	80	77	77
315	78	72	68	79	86	88	85	85	90	89	90	89	88	89	89	90	90	89	92	89	83	77	74	73
400	76	70	66	77	84	86	83	83	88	87	88	87	86	87	87	88	88	87	89	86	81	74	70	68
500	74	68	64	75	82	83	80	81	86	85	86	85	84	85	85	86	86	85	87	84	78	70	66	63
630	72	66	62	73	80	81	78	78	84	83	84	83	82	82	83	84	83	82	84	80	74	66	61	57
800	70	64	60	70	77	78	75	76	82	80	82	80	80	80	80	81	81	79	81	77	70	62	56	50
1000	68	62	58	67	74	75	72	73	80<	78	80	78	77	78	78	79	78	76	77	73	66	57	49	42
1250	66	60	55	64	71	72	69	69	77	76	78	76	75	75	75	76	75	73	74	69	62	51	42	31
1600	64	57	52	61	67	68	65	66	74	74	75	74	73	73	72	73	72	70	70	64	56	44	33	19
2000	61	53	48	57	64	64	61	62	70	72	73	71	70	70	70	70	68	66	65	58	50	36	22	4
2500	57	49	44	53	59	60	57	58	66	68	70	69	67	67	66	66	65	61	60	52	43	27	9	
3150	53	45	39	48	54	55	52	53	62	64	67	66	64	64	63	63	60	56	54	44	34	15		
4000	49	40	34	42	49	49	46	47	56	59	63	62	61	61	59	58	55	50	47	35	23	1		
5000	44	35	29	38	44	45	41	42	50	53	59	58	58	57	55	53	50	44	38	24	10			
6300	39	30	24	33	39	40	36	37	44	48	54	54	53	53	50	48	43	36	28	10				
8000	37	28	22	31	37	37	34	34	42	45	51	50	49	48	45	41	35	26	16					
10000	34	26	20	28	34	35	31	31	38	41	47	46	44	43	38	34	26	14	1					
12500	32	24	18	26	32	32	28	28	35	38	43	41	39	36	31	24	15	0						
16000	30	21	15	23	29	29	25	25	31	33	38	35	32	29	22	13	1							
20000	28	19	13	21	26	26	22	21	27	29	33	29	25	20	11	0								
25000	25	16	10	18	23	23	18	17	23	23	26	22	16	9										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-10A

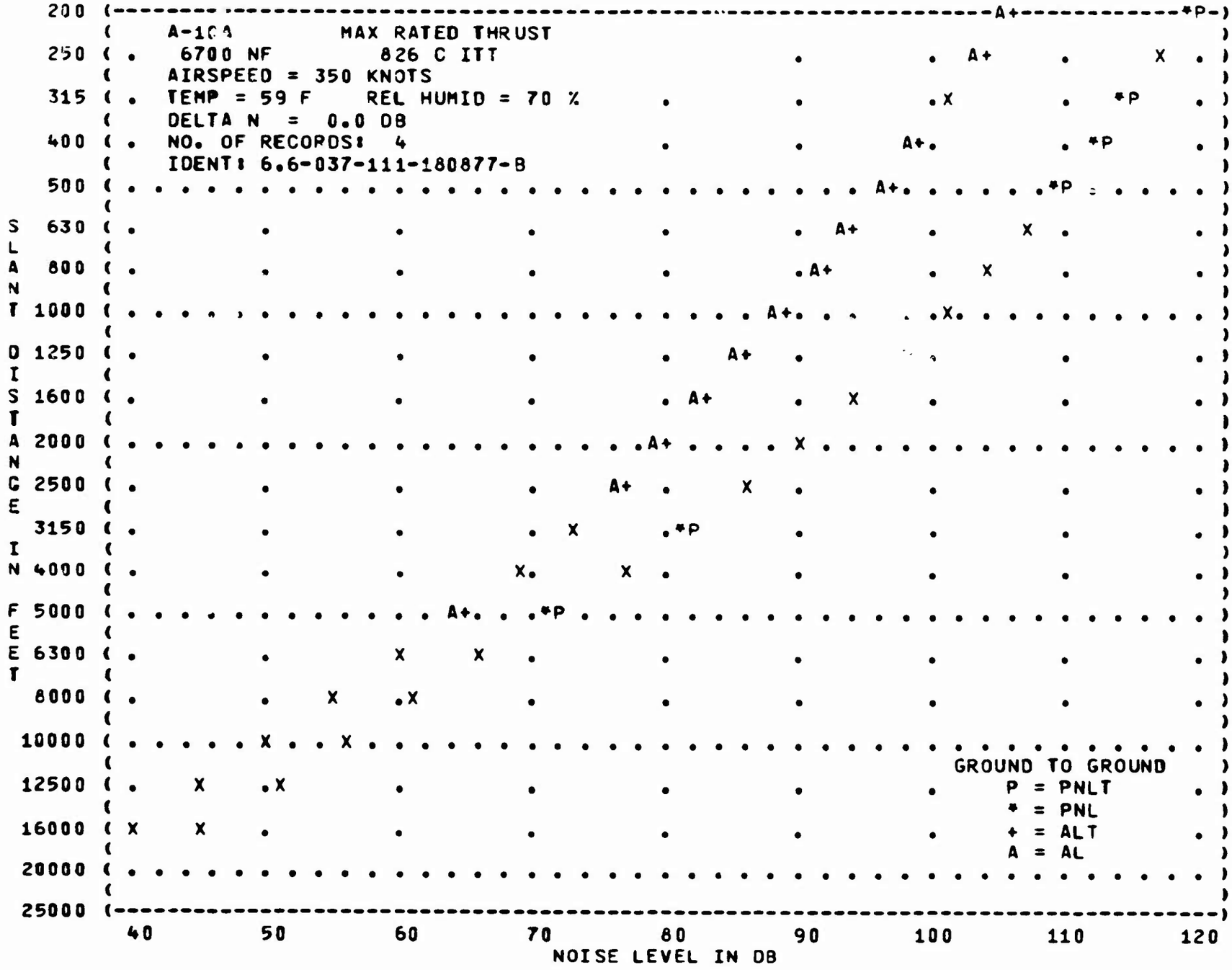
OPERATION:
MAX RATED THRUST
6700 NF 826 C ITT
AIRSPEED = 350 KNOTS

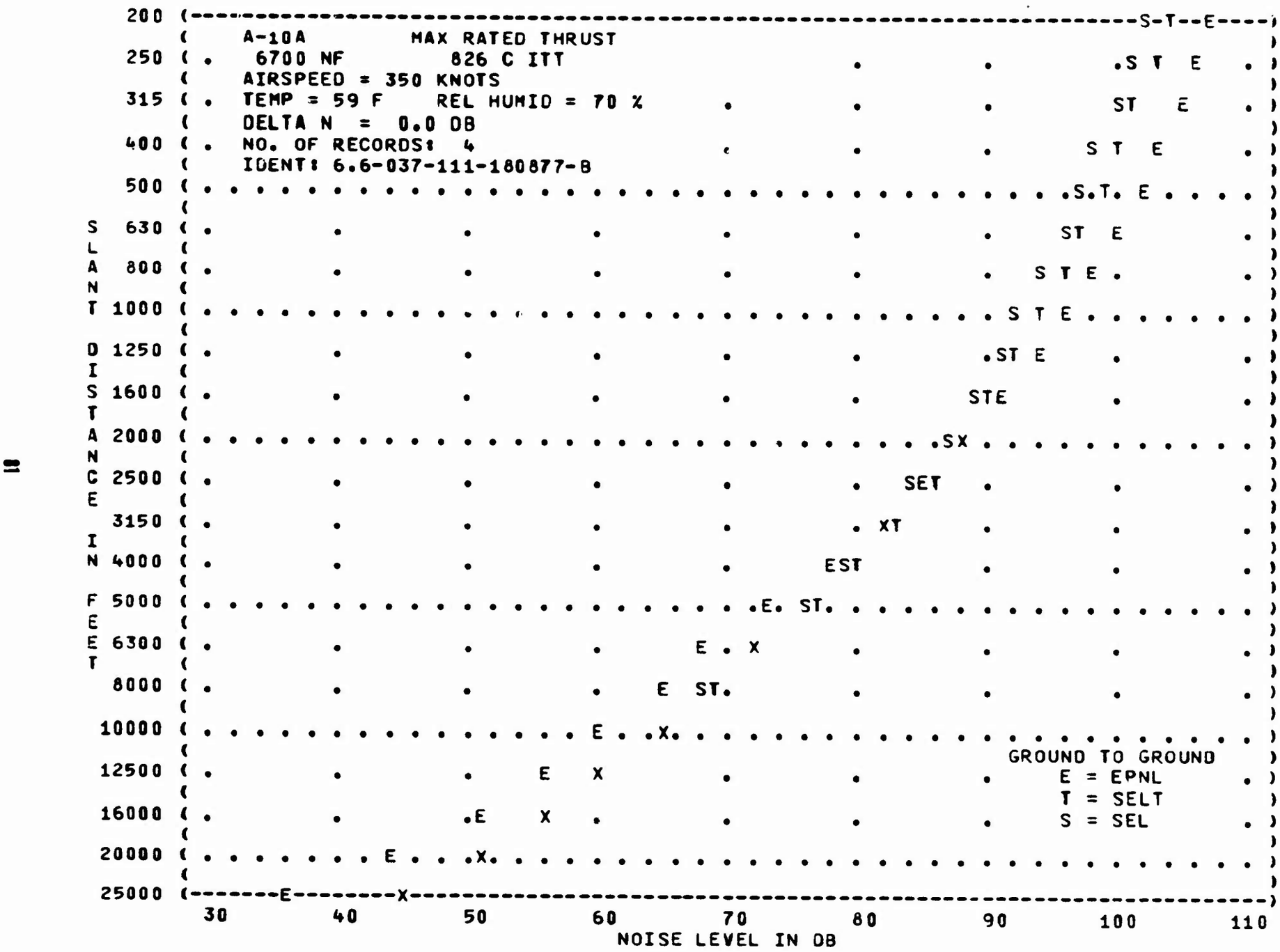
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

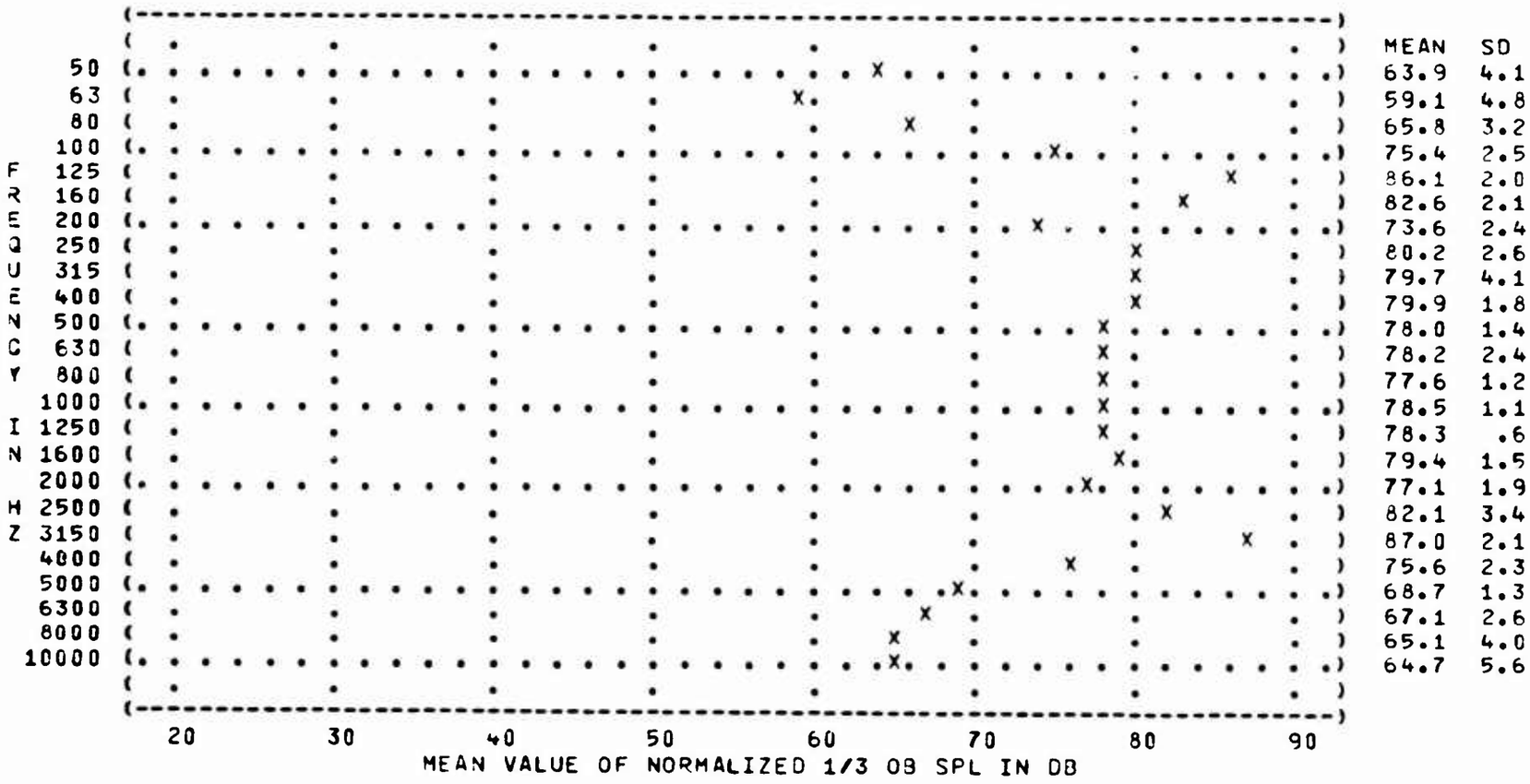
A/C CODE: 037
OPS CODE: 111
PROFILE VER: B
18 AUG 77
PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	105.0	105.8	119.0	119.7	102.3	103.9	107.5
250	102.8	103.6	116.7	117.4	101.1	102.7	106.2
315	100.5	101.3	114.3	115.1	99.8	101.4	104.8
400	98.2	99.0	111.9	112.6	98.5	100.1	103.4
500	95.8	96.6	109.3	110.0	97.1	98.7	101.8
630	93.3	94.1	106.6	107.3	95.6	97.2	100.1
800	90.8	91.5	103.7	104.4	94.0	95.7	98.2
1000	88.1	88.9	100.6	101.4	92.4	94.0	96.1
1250	85.3	86.1	97.2	98.0	90.6	92.2	93.8
1600	82.4	83.2	93.6	94.3	88.7	90.3	91.1
2000	79.4	80.1	89.7	90.4	86.6	88.2	88.2
2500	76.1	76.8	85.7	86.4	84.3	86.0	85.2
3150	72.5	73.3	81.4	82.1	81.8	83.4	81.9
4000	68.6	69.2	76.6	77.2	78.9	80.2	77.8
5000	64.3	64.7	71.4	71.8	75.5	76.5	73.3
6300	59.6	59.9	65.8	66.1	71.8	72.5	68.4
8000	55.1	55.2	61.3	61.5	68.3	68.7	64.5
10000	50.3	50.3	56.4	56.4	64.5	64.5	60.3
12500	45.1	45.1	51.0	51.0	60.4	60.4	55.9
16000	39.5	39.5	44.7	44.7	55.8	55.8	50.6
20000	33.4	33.4	37.0	37.0	50.7	50.7	43.9
25000	26.8	26.8	27.8	27.8	45.0	45.0	35.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-10A MAX RATED THRUST
6700 NF 826 C ITT
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-037-111-180877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


A-10A MAX RATED THRUST
6700 NF 826 C ITT
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-037-111-180877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



A-10A NORMAL RATED THRUST 6200 NF 756 C ITT

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-037-112-180877

PNLT = 109.6 PNDB
PNL = 106.9 PNDB
ALT = 94.4 DBA
AL = 91.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
A-10A

OPERATION:
NORMAL RATED THRUST
6200 NF 756 C ITT
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
A/C CODE: 037
OPS CODE: 112
PROFILE VER: 8
18 AUG 77
PAGE H3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	78	73	80	90	100	97	88	94	94	94	93	93	93	94	94	95	94	99	105	96	90	91	94	101
250	76	71	78	87	98	95	86	92	92	92	91	91	91	92	92	93	91	97	103	93	88	89	91	97
315	74	69	76	85	96	93	84	90	90	90	88	89	88	90	90	91	89	95	101	91	85	86	88	93
400	72	67	74	83	94	91	82	88	88	88	86	87	86	87	87	89	87	93	98	88	82	83	84	89
500	70	65	72	81	92	89	80	86	86	86	84	85	84	85	85	87	85	90	96	85	79	80	80	84
630	68	63	70	79	90	87	78	84	84	84	82	83	82	83	83	84	82	88	93	82	76	76	76	79
800	66	61	68	77	88	85	76	82	82	82	80	80	80	81	81	82	80	85	90	79	73	72	71	72
1000	64	59	66	75	86	83	74	80	80	80	78	78	78	78	78	79	77	82	87<	76	69	67	65	65
1250	62	57	64	73	84	81	72	78	78	78	76	76	75	76	76	77	74	79	84	72	64	62	58	56
1600	60	55	62	71	82	79	69	76	75	76	74	74	73	74	73	74	71	76	80	67	59	56	50	45
2000	58	53	60	69	80	76	67	74	73	73	71	71	70	71	70	71	68	72	76	62	54	48	40	31
2500	56	51	58	67	78	74	65	72	71	71	69	69	68	68	67	68	64	68	71	56	47	40	29	15
3150	54	49	56	65	76	72	63	69	69	69	66	66	65	65	64	64	60	63	65	49	39	29	14	
4000	52	47	53	63	74	70	61	67	66	66	64	63	62	62	61	60	56	58	59	41	30	17		
5000	50	45	51	61	71	68	58	65	64	64	61	60	59	59	57	56	51	52	51	31	18	1		
6300	48	43	49	59	69	65	56	62	61	61	58	57	55	55	52	50	45	44	42	19	4			
8000	45	40	47	56	67	63	54	60	58	58	55	54	51	50	47	45	38	36	31	4				
10000	43	38	45	54	64	61	51	57	56	55	51	50	47	45	41	38	29	25	17					
12500	41	36	42	52	62	58	48	54	52	51	47	45	42	39	35	29	19	13	1					
16000	39	34	40	49	59	55	45	51	49	47	43	40	36	32	26	19	7							
20000	37	31	38	47	57	52	42	47	45	43	38	35	29	24	17	7								
25000	34	29	35	44	54	49	39	43	41	38	32	28	21	15	5									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: A-10A

OPERATION: NORMAL RATED THRUST, 6200 NF, 756 C ITT, AIRSPEED = 300 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %

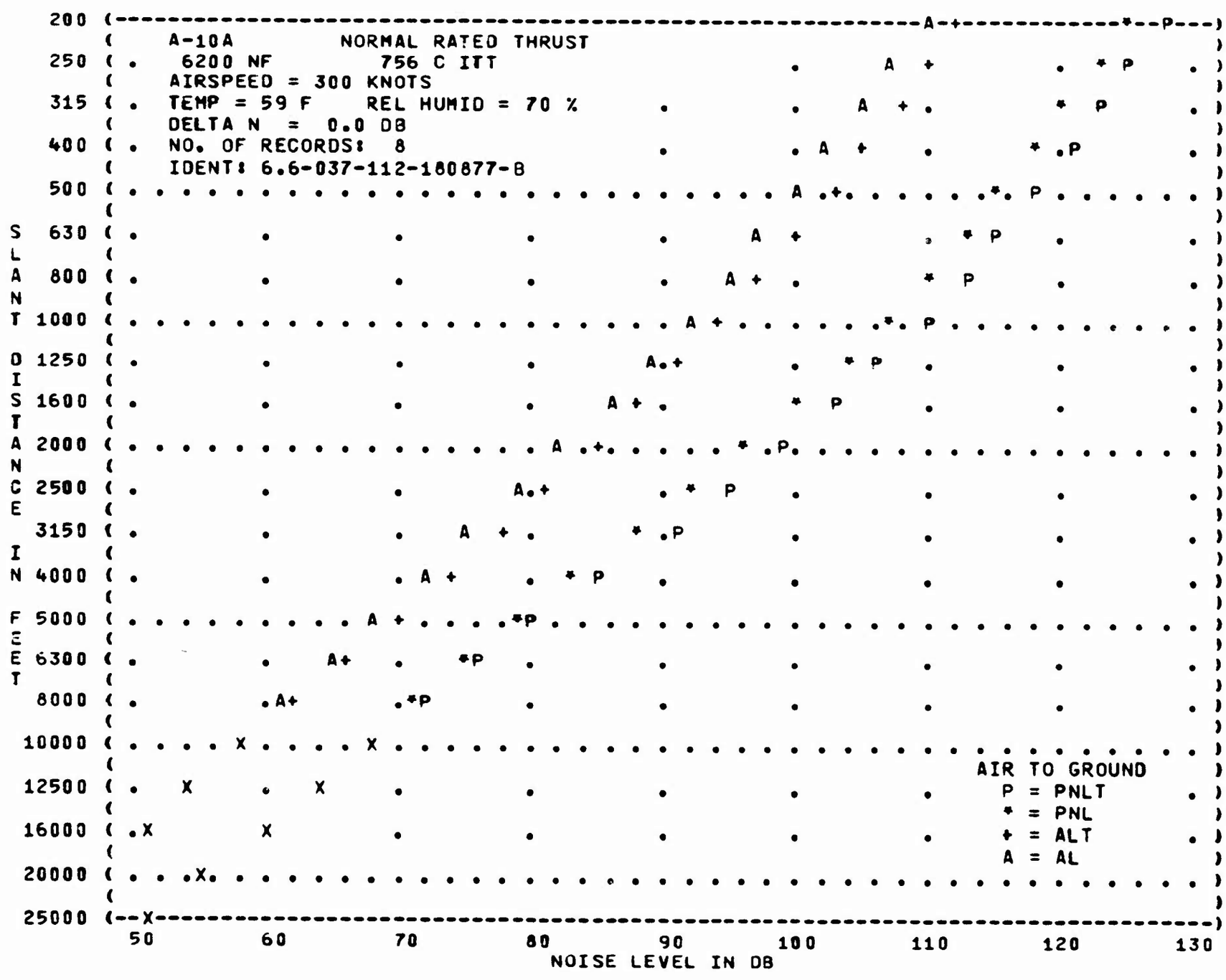
DELTA N = 0.0 DB

A/C CODE: 037
OPS CODE: 112
PROFILE VER: B
18 AUG 77
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	109.6	112.4	125.1	127.8	107.2	108.9	112.5
250	107.3	110.0	122.8	125.5	105.8	107.6	111.2
315	104.9	107.6	120.4	123.1	104.5	106.2	109.8
400	102.5	105.2	117.9	120.7	103.0	104.7	108.4
500	99.9	102.6	115.4	118.1	101.5	103.2	106.8
630	97.3	100.0	112.7	115.4	99.8	101.6	105.1
800	94.6	97.3	109.9	112.6	98.1	99.8	103.3
1000	91.7	94.4	106.9	109.6	96.2	98.0	101.3
1250	88.7	91.4	103.6	106.4	94.2	95.9	99.1
1600	85.5	88.2	100.2	102.9	92.1	93.8	96.6
2000	82.2	84.9	96.5	99.2	89.7	91.4	93.9
2500	78.7	81.4	92.4	95.1	87.3	89.0	90.8
3150	75.2	77.9	88.0	90.7	84.7	86.4	87.4
4000	71.7	73.8	83.2	85.4	82.2	83.6	83.3
5000	68.2	69.8	78.8	80.4	79.7	80.8	79.5
6300	64.7	65.8	75.1	76.2	77.3	78.0	76.5
8000	61.3	61.8	71.4	71.9	74.8	75.2	73.5
10000	57.8	57.8	67.6	67.6	72.3	72.3	70.3
12500	54.2	54.2	63.7	63.7	69.8	69.8	67.4
16000	50.5	50.5	59.6	59.6	67.1	67.1	64.3
20000	46.8	46.8	55.3	55.3	64.3	64.3	61.0
25000	42.8	42.8	50.8	50.8	61.4	61.4	57.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-10A NORMAL RATED THRUST
6200 NF 756 C ITT
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-037-112-180877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

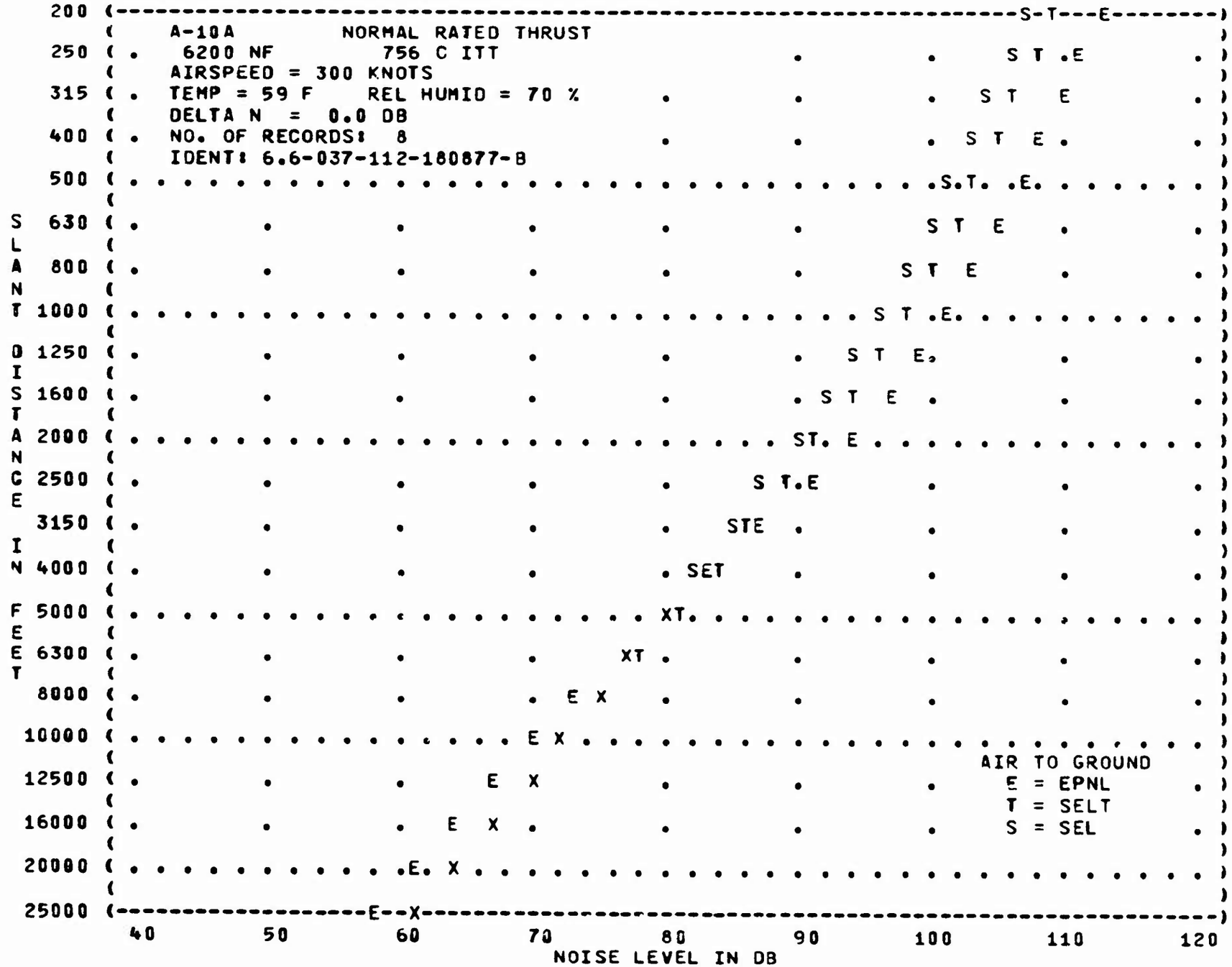

A-10A NORMAL RATED THRUST
6200 NF 756 C ITT
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-037-112-180877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-10A

OPERATION:
NORMAL RATED THRUST
6200 NF 756 C ITT
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 037
OPS CODE: 112
PROFILE VER: B
18 AUG 77
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	73	68	75	85	95	92	83	89	89	89	86	88	88	89	89	90	89	94	100	91	85	86	89	96
250	71	66	73	82	93	90	81	87	87	87	86	86	86	87	87	88	86	92	98	88	83	84	86	92
315	69	64	71	80	91	88	79	85	85	85	83	84	83	85	85	86	84	90	96	86	80	81	83	88
400	67	62	69	78	89	86	77	83	83	83	81	82	81	82	82	84	82	88	93	83	77	78	79	84
500	65	60	67	76	87	83	74	81	81	81	79	80	79	80	80	82	80	85	91	80	74	75	75	79
630	63	58	65	74	85	81	72	79	79	79	77	78	77	78	78	79	77	83	88	77	71	71	71	74
800	61	56	63	72	82	78	69	76	77	77	75	75	75	76	76	77	75	80	85	74	68	67	66	67
1000	59	54	61	69	79	75	66	73	75	75	73	73	73	73	73	74	72	77	82<	71	64	62	60	60
1250	57	52	58	66	76	72	63	70	72	73	71	71	70	71	71	72	69	74	79	67	59	57	53	51
1600	55	49	54	63	72	68	59	66	69	71	69	69	68	69	68	69	66	71	75	62	54	51	45	40
2000	52	45	51	59	68	64	55	62	65	68	66	66	65	66	65	66	63	67	71	57	49	43	35	26
2500	48	41	47	54	64	60	51	58	61	65	64	64	63	63	62	63	59	63	66	51	42	35	24	10
3150	44	37	42	50	59	55	46	53	56	60	60	61	60	60	59	59	55	58	60	44	34	24	9	
4000	40	32	36	44	54	50	40	47	51	56	57	58	57	57	56	55	51	53	54	36	25	12		
5000	35	27	32	39	49	45	35	42	45	50	52	54	53	54	52	51	46	47	46	26	13			
6300	30	23	27	35	44	40	31	37	39	45	48	49	49	50	47	45	40	39	37	14				
8000	27	20	25	32	42	38	28	35	36	42	45	46	45	45	42	40	33	31	26					
10000	25	18	23	30	39	35	25	32	34	39	41	42	41	40	36	33	24	20	12					
12500	23	16	20	28	37	32	23	29	30	35	37	37	36	34	30	24	14	8						
16000	21	14	18	25	34	30	20	26	27	31	33	32	30	27	21	14	2							
20000	19	11	16	23	32	27	17	22	23	27	28	27	23	19	12	2								
25000	16	9	13	20	29	24	13	18	19	22	22	20	15	10	0									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
A-10A

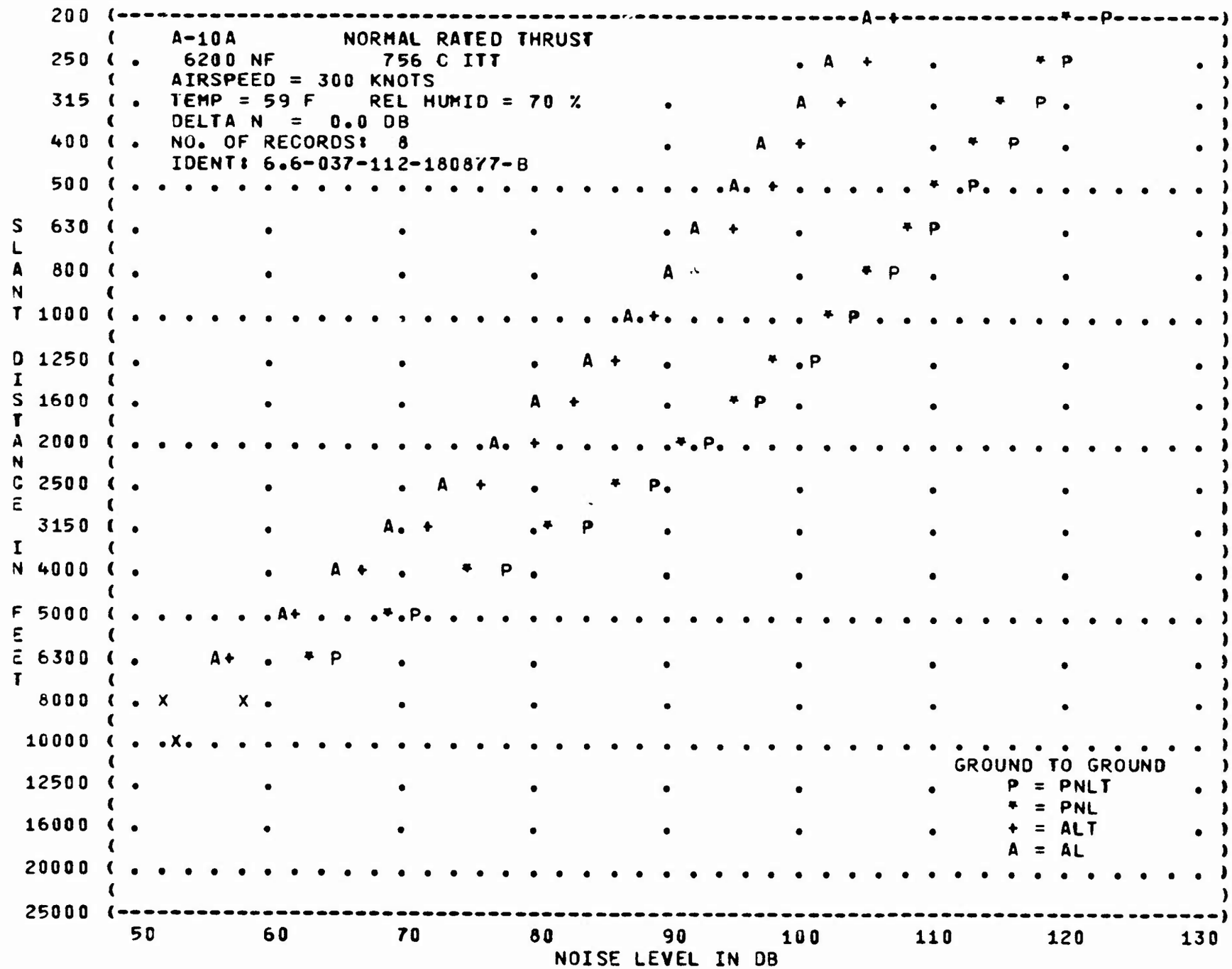
OPERATION:
NORMAL RATED THRUST
6200 NF 756 C ITT
AIRSPEED = 300 KNOTS

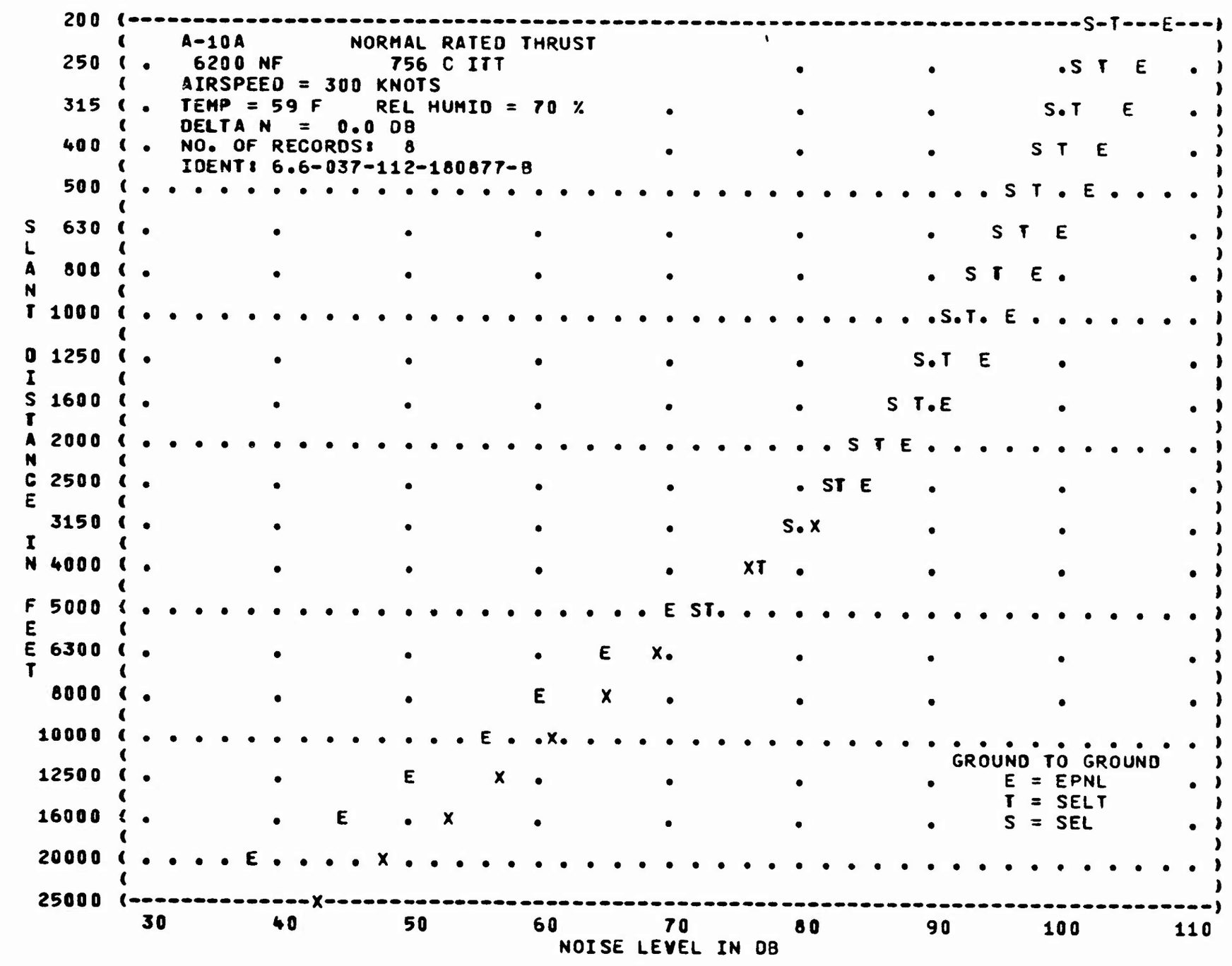
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

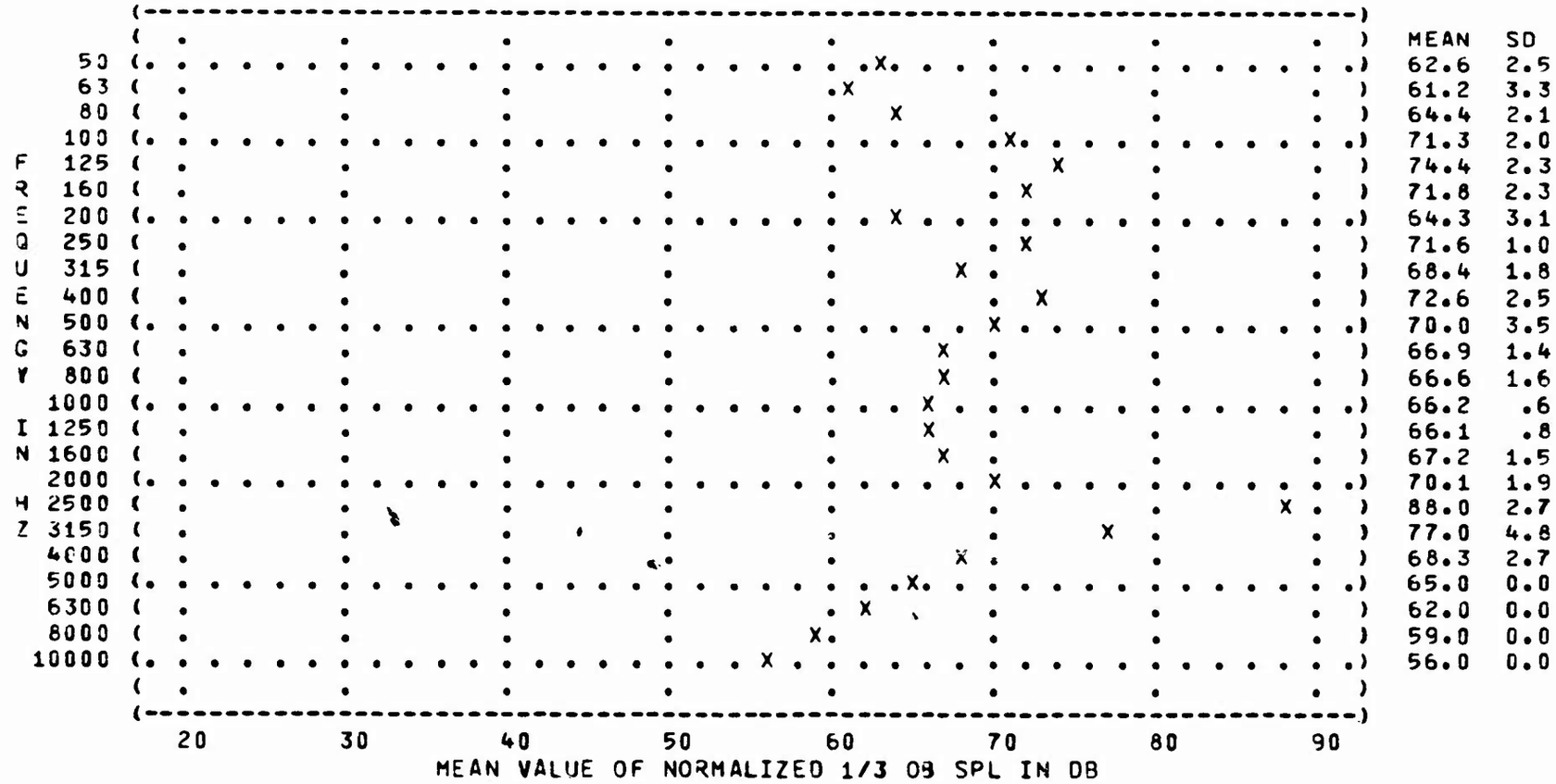
A/C CODE: 037
OPS CODE: 112
PROFILE VER: B
18 AUG 77
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	104.6	107.4	120.1	122.8	102.2	103.9	107.5
250	102.3	105.0	117.8	120.5	100.8	102.6	106.2
315	99.9	102.6	115.4	118.1	99.5	101.2	104.8
400	97.5	100.2	112.9	115.7	98.0	99.7	103.4
500	94.9	97.6	110.4	113.1	96.5	98.2	101.8
630	92.3	95.0	107.6	110.3	94.8	96.5	100.1
800	89.5	92.3	104.7	107.5	93.1	94.8	98.2
1000	86.7	89.4	101.6	104.4	91.2	92.9	96.1
1250	83.6	86.3	98.3	101.0	89.1	90.9	93.7
1600	80.4	83.1	94.6	97.3	86.9	88.6	91.0
2000	76.9	79.6	90.6	93.3	84.5	86.2	88.0
2500	73.2	76.0	86.1	88.9	81.8	83.5	84.6
3150	69.3	72.0	81.1	83.9	78.9	80.6	80.6
4000	65.2	67.3	75.5	77.7	75.7	77.1	75.6
5000	60.7	62.3	69.2	70.8	72.2	73.3	69.9
6300	56.0	57.1	63.5	64.6	68.6	69.2	64.9
8000	51.5	52.1	57.9	58.5	65.1	65.4	60.0
10000	46.8	46.8	52.8	52.8	61.4	61.4	55.6
12500	41.8	41.8	46.7	46.7	57.4	57.4	50.4
16000	36.4	36.4	40.3	40.3	53.0	53.0	45.0
20000	30.6	30.6	32.7	32.7	48.2	48.2	38.5
25000	24.5	24.5	21.7	21.7	43.1	43.1	28.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-10A NORMAL RATED THRUST
6200 NF 756 C ITT
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-037-112-180877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB


A-10A NORMAL RATED THRUST
6200 NF 756 C ITT
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-037-112-180877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



A-10A TRAFFIC PATTERN 5325 NF 646 C ITT

AIRSPEED = 160 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = [illegible]
REL HUMID = [illegible]

IDENT: 6.6 . 80877

PNLT = 108.4 PNDB
PNL = 103.6 PNDB
ALT = 94.7 DBA
AL = 89.9 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-10A

OPERATION:
TRAFFIC PATTERN
5325 NF 646 C ITT
AIRSPEED = 160 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 037
OPS CODE: 113
PROFILE VER: B
18 AUG 77
PAGE H4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	77	75	79	85	89	86	79	86	83	87	85	82	82	81	82	83	87	105	96	89	86	86	88	92
250	75	73	77	83	87	84	77	84	81	85	83	80	79	79	80	81	84	103	93	86	84	84	85	89
315	73	71	75	81	84	82	74	82	79	83	80	78	77	77	77	79	82	101	91	84	81	81	82	85
400	71	69	73	79	82	80	72	80	77	81	78	76	75	75	75	77	80	98	88	81	79	78	78	81
500	69	67	70	77	80	78	70	78	75	79	75	73	73	73	73	74	78	96	86	78	76	75	74	76
630	67	65	68	75	78	76	68	76	73	77	74	71	71	71	71	72	75	93	83	75	72	71	70	70
800	65	63	66	73	76	74	66	74	71	75	72	69	69	69	69	70	73	91	80	72	69	67	65	64
1000	63	61	64	71	74	72	64	72	68	73	70	67	67	66	66	67	70	88<	77	68	65	62	59	56
1250	61	59	62	69	72	70	62	70	66	70	68	65	64	64	64	65	67	85	74	64	61	57	52	47
1600	59	57	60	67	70	68	60	67	64	68	66	62	62	61	61	62	64	82	70	60	56	50	44	36
2000	57	55	58	65	68	66	58	65	62	66	63	60	59	59	58	59	61	78	65	54	50	43	34	22
2500	54	53	56	63	66	63	56	63	60	64	61	58	57	56	55	56	57	74	61	48	43	34	22	6
3150	52	51	54	61	64	61	54	61	57	61	58	55	54	53	52	52	53	69	55	41	35	24	8	
4000	50	49	52	59	62	59	51	59	55	59	56	52	51	50	48	48	49	64	48	33	25	11		
5000	48	47	50	57	60	57	49	56	53	56	53	49	48	46	45	43	44	57	41	23	14			
6300	46	45	48	55	57	55	47	54	50	53	50	46	44	42	40	38	38	50	31	11				
8000	44	43	46	52	55	52	44	51	47	50	47	42	40	38	35	32	33	41	20					
10000	42	40	43	50	53	50	42	48	44	47	43	38	36	33	29	25	22	31	7					
12500	40	38	41	48	50	47	39	45	41	44	39	34	31	27	22	17	12	18						
16000	38	36	39	45	48	44	36	42	38	40	35	29	25	20	14	7		3						
20000	35	33	36	43	45	41	33	39	34	35	30	23	18	12	4									
25000	33	31	34	40	42	38	29	35	29	30	24	16	10	2										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
A-10A

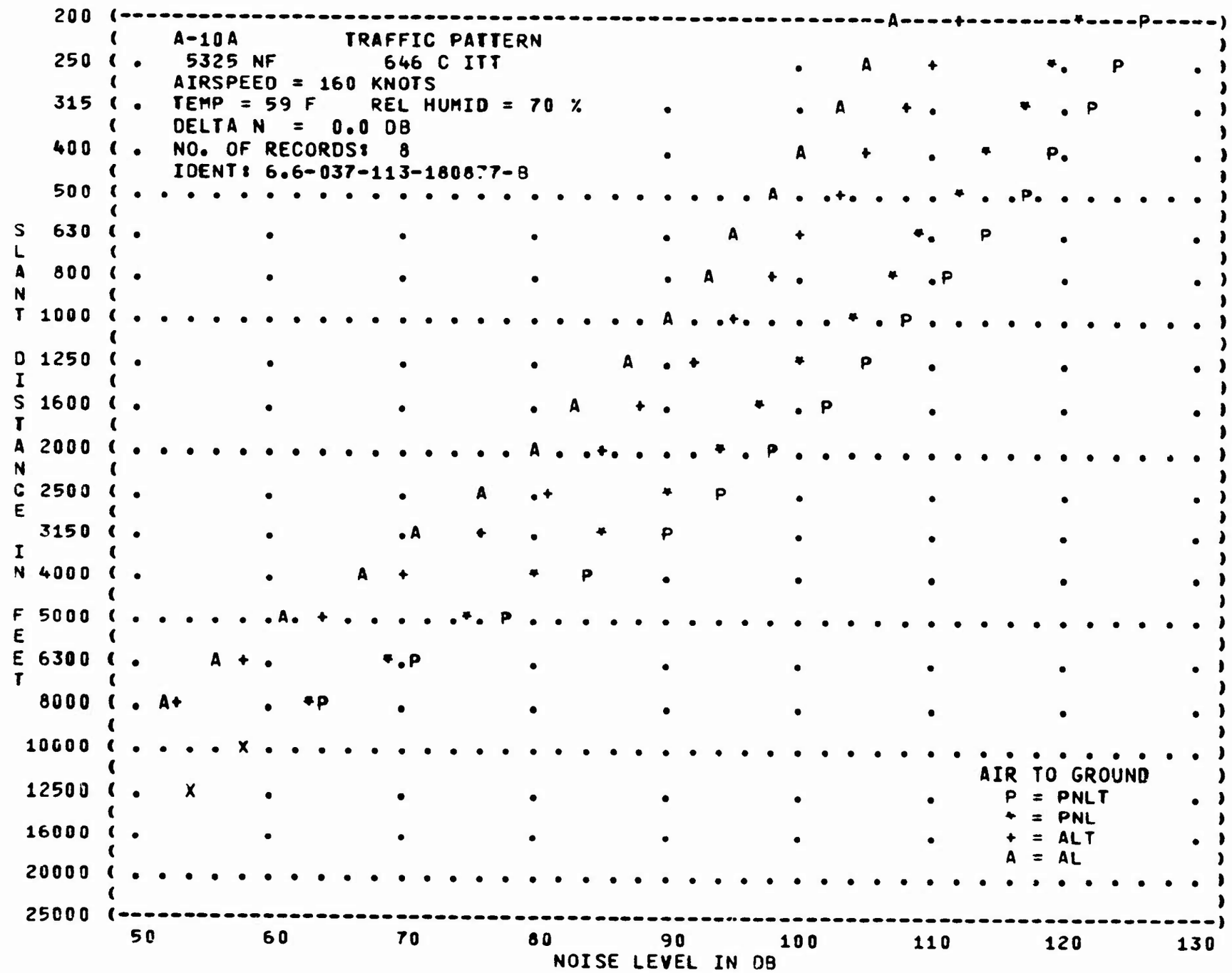
OPERATION:
TRAFFIC PATTERN
5325 NF 646 C ITT
AIRSPEED = 160 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 037
OPS CODE: 113
PROFILE VER: B
18 AUG 77
PAGE I4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	107.4	112.2	121.4	126.2	103.6	107.4	111.7
250	105.2	110.0	119.1	123.9	102.3	106.1	110.4
315	102.9	107.7	116.8	121.6	101.0	104.8	109.1
400	100.5	105.3	114.4	119.2	99.7	103.4	107.7
500	98.0	102.8	111.9	116.7	98.2	102.0	106.2
630	95.5	100.3	109.3	114.1	96.6	100.4	104.6
800	92.8	97.6	106.5	111.3	94.9	98.7	102.8
1000	89.9	94.7	103.6	108.4	93.1	96.8	100.9
1250	86.8	91.6	100.5	105.3	91.0	94.8	98.8
1600	83.5	88.3	97.2	101.9	88.7	92.4	96.5
2000	79.9	84.6	93.5	98.3	86.0	89.8	93.8
2500	75.8	80.6	89.6	94.4	83.0	86.8	90.9
3150	71.4	76.2	85.3	90.0	79.6	83.3	87.6
4000	65.5	70.4	80.4	84.3	75.7	78.7	83.0
5000	61.4	64.3	75.1	78.0	71.6	73.8	77.9
6300	56.4	58.4	69.2	71.2	67.6	69.1	72.3
8000	52.1	53.0	62.8	63.8	64.2	65.0	66.1
10000	48.3	48.3	58.2	58.2	61.4	61.4	61.7
12500	44.7	44.7	53.6	53.6	58.8	58.8	58.1
16000	41.0	41.0	48.3	48.3	56.1	56.1	53.9
20000	37.1	37.1	43.0	43.0	53.2	53.2	49.5
25000	33.0	33.0	37.0	37.0	50.1	50.1	44.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-10A TRAFFIC PATTERN
5325 NF 646 C ITT
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-037-113-180877-8
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

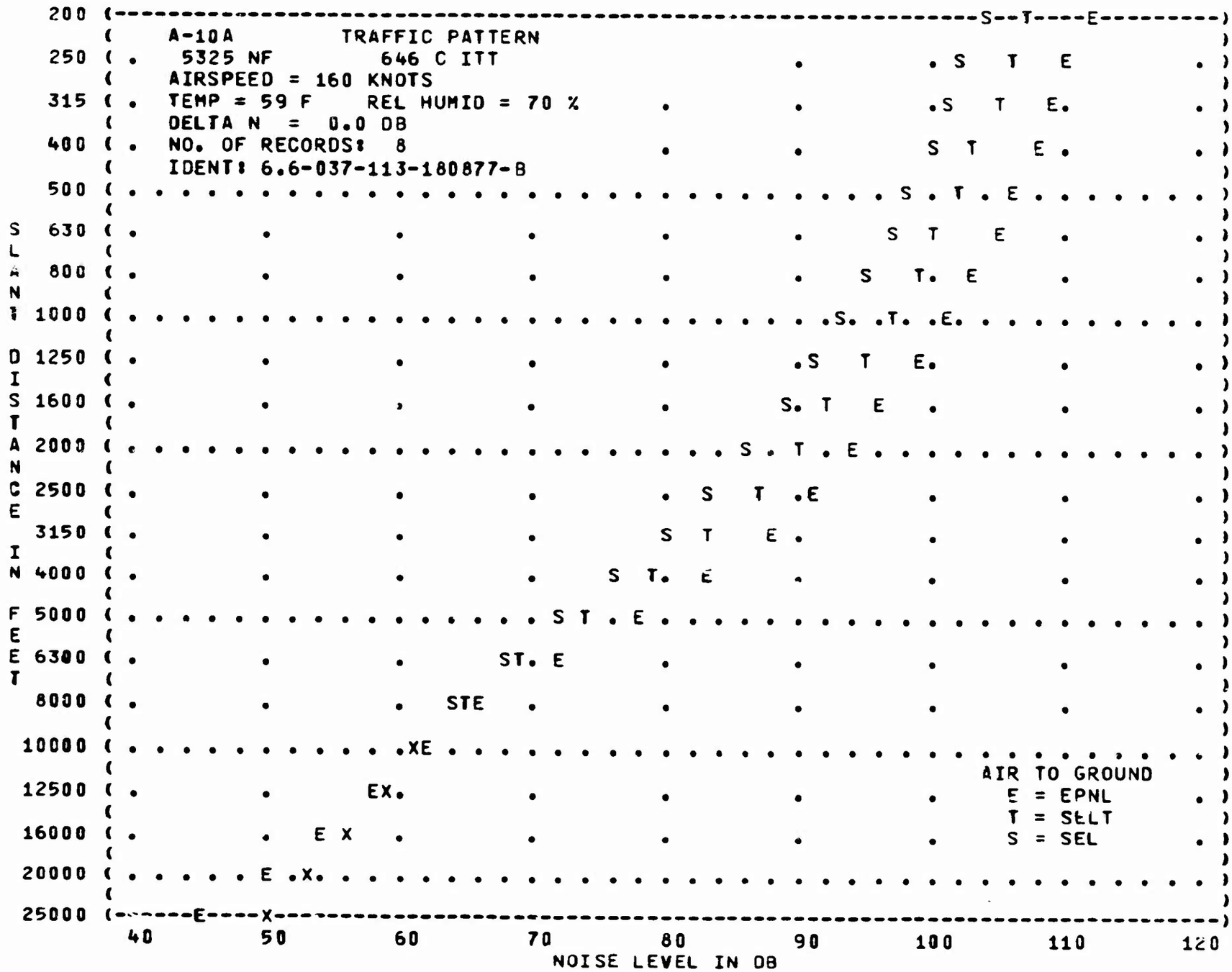

A-10A TRAFFIC PATTERN
5325 NF 646 C ITT
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-037-113-180877-B
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-10A

OPERATION:
TRAFFIC PATTERN
5325 NF 646 C ITT
AIRSPEED = 160 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 037
OPS CODE: 113
PROFILE VER: B
18 AUG 77
PAGE L4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	72	70	74	80	84	81	74	81	78	82	80	77	77	76	77	78	82	100	91	84	81	81	83	87
250	70	68	72	78	82	79	72	79	76	80	78	75	74	74	75	76	79	98	88	81	79	79	80	84
315	68	66	70	76	79	77	69	77	74	78	75	73	72	72	72	74	77	96	86	79	76	76	77	80
400	66	64	68	74	77	75	67	75	72	76	73	71	70	70	70	72	75	93	83	76	74	73	73	76
500	64	62	65	72	75	72	65	73	70	74	71	68	68	68	68	69	73	91	81	73	71	70	69	71
630	62	60	63	70	73	70	62	70	68	72	69	66	66	66	66	67	70	88	78	70	67	66	65	65
800	60	58	61	68	70	67	59	67	66	70	67	64	64	64	64	65	68	86	75	67	64	62	60	59
1000	58	56	59	65	67	64	57	64	63	68	65	62	62	61	61	62	65	83<	72	63	60	57	54	51
1250	56	54	56	62	64	61	53	61	60	65	63	60	59	59	59	60	62	80	69	59	56	52	47	42
1600	54	51	53	58	61	57	50	58	57	63	61	57	57	56	56	57	59	77	65	55	51	45	39	31
2000	50	47	49	55	57	54	46	54	53	61	58	55	54	54	53	54	56	73	60	49	45	38	29	17
2500	47	43	45	50	52	49	42	49	50	57	56	53	52	51	50	51	52	69	56	43	38	29	17	1
3150	43	39	41	46	48	44	37	44	45	53	52	50	49	48	47	47	48	64	50	36	30	19	3	
4000	38	34	35	40	42	39	31	39	40	48	49	46	46	45	43	43	44	59	43	28	20	6		
5000	33	29	30	35	37	34	26	34	34	43	44	42	42	41	40	38	39	52	36	18	9			
6300	28	25	26	31	32	29	21	29	28	37	40	38	38	37	35	33	33	45	26	6				
8000	26	23	24	28	30	27	19	26	25	34	37	34	34	33	30	27	25	36	15					
10000	24	20	21	26	28	24	16	23	22	31	33	30	30	28	24	20	17	26	2					
12500	22	18	19	24	25	22	13	20	19	28	29	26	25	22	17	12	7	13						
16000	20	16	17	21	23	19	10	17	16	24	25	21	19	15	9	2								
20000	17	13	14	19	20	16	7	14	12	19	20	15	12	7										
25000	15	11	12	16	17	13	4	10	7	14	14	8	4											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
A-10A

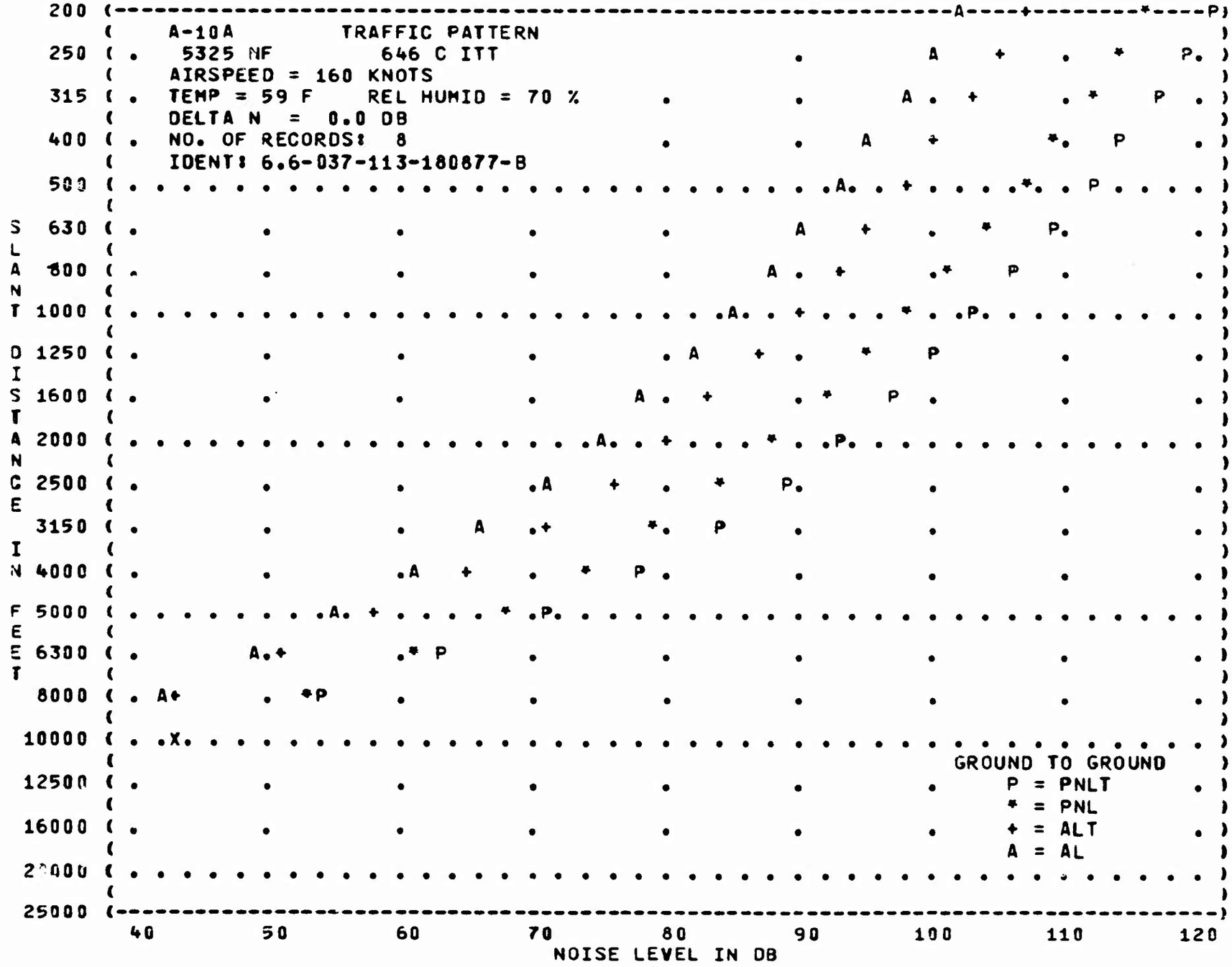
OPERATION:
TRAFFIC PATTERN
5325 NF 646 C ITT
AIRSPEED = 160 KNOTS

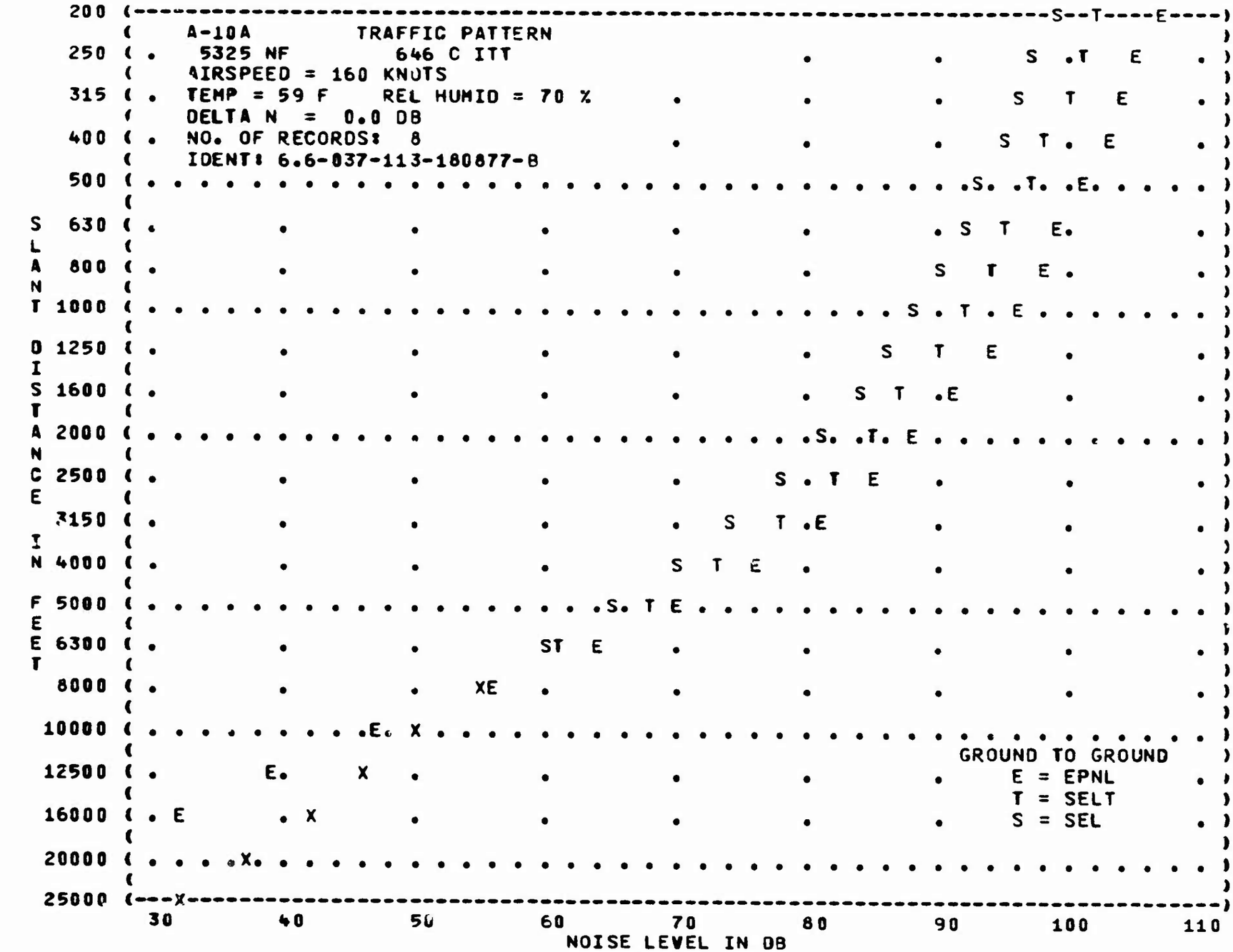
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 037
OPS CODE: 113
PROFILE VER: 8
18 AUG 77
PAGE M4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	102.4	107.2	116.4	121.2	98.6	102.4	106.7
250	100.2	105.0	114.1	118.9	97.3	101.1	105.4
315	97.9	102.7	111.8	116.6	96.0	99.8	104.1
400	95.5	100.3	109.4	114.1	94.7	98.4	102.7
500	93.0	97.8	106.8	111.6	93.2	97.0	101.1
630	90.5	95.3	104.2	109.0	91.6	95.4	99.5
800	87.8	92.6	101.4	106.2	89.9	93.7	97.7
1000	84.9	89.7	98.4	103.2	88.1	91.8	95.7
1250	81.8	86.6	95.2	100.0	86.0	89.8	93.5
1600	78.5	83.3	91.8	96.6	83.6	87.4	91.1
2000	74.8	79.6	88.0	92.8	81.0	84.7	88.3
2500	70.7	75.5	83.8	88.6	77.9	81.7	85.1
3150	66.2	71.0	79.1	83.9	74.3	78.1	81.4
4000	61.0	64.8	73.7	77.6	70.2	73.2	76.3
5000	55.2	58.0	67.7	70.5	65.3	67.6	70.5
6300	48.7	50.6	60.6	62.5	59.9	61.4	63.6
8000	42.4	43.4	52.7	53.7	54.6	55.3	56.0
10000	36.7	36.7	43.2	43.2	49.9	49.9	46.7
12500	31.5	31.5	34.3	34.3	45.7	45.7	38.9
16000	26.4	26.4	26.1	26.1	41.6	41.6	31.6
20000	21.0	21.0	15.3	15.3	37.2	37.2	21.9
25000	15.1	15.1	4.6	4.6	32.3	32.3	12.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-10A TRAFFIC PATTERN
5325 NF 646 C ITT
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-037-113-180877-B
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB


A-10A TRAFFIC PATTERN
5325 NF 646 C ITT
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-037-113-180877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL

USAF A-10A AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

A-10A AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 75-837-881
AIRCRAFT CODE: 837
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
IDLE, 25% RPM, 64% NC, 400 LBS/HR	101-106
MAXIMUM CONTINUOUS, 77% RPM, 91% NC, 2100 LBS/HR	107-112
MAXIMUM, 84% RPM, 95% NC, 2750 LBS/HR	113-118

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

06 FEB 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF A-10A AIRCRAFT

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 01
AIRCRAFT CODE 037
OPERATION CODE 02013
PROFILE VERSION A
06 FEB 76
PAGE C1

NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
IDLE, 25% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	52	52	52	54	53	51	52	55	52	55	53	53	53	55	53	55	55	54	53
63	55	57	57	58	56	55	56	59	59	59	59	60	61	59	59	61	60	60	56
80	59	59	60	62	61	58	57	57	57	58	63	64	64	64	65	65	64	64	62
100	65	66	65	68	66	65	63	65	63	64	63	66	66	67	68	69	69	69	65
125	71	71	70	66	64	65	66	66	66	67	66	67	67	69	70	69	68	69	67
160	71	70	69	62	62	63	69	70	67	67	68	69	70	68	69	68	66	61	63
200	71	70	67	60	62	66	66	65	66	64	64	69	72	71	67	64	62	64	61
250	64	63	61	59	59	57	57	57	57	55	57	55	57	59	57	56	55	55	53
315	65	64	59	61	58	59	57	59	62	60	59	61	58	61	62	56	57	57	50
400	68	66	61	64	62	60	58	63	64	62	64	62	59	59	63	58	61	61	56
500	64	62	62	60	58	58	52	54	56	52	55	57	54	57	55	56	55	53	53
630	65	64	65	63	62	59	55	57	56	53	55	58	55	58	56	57	55	54	55
800	67	63	65	67	65	62	60	58	54	56	53	55	54	56	55	53	54	54	56
1000	68	65	64	66	66	64	62	59	55	55	54	55	52	55	55	53	54	55	56
1250	70	68	63	67	65	62	59	57	54	56	56	56	54	52	55	56	54	55	55
1600	70	68	67	70	70	66	62	59	54	57	55	57	55	53	55	56	55	55	55
2000	70	70	67	70	68	65	59	57	54	55	55	58	57	55	55	56	55	55	55
2500	70	70	66	70	68	63	62	59	54	53	55	58	57	58	57	55	55	54	54
3150	70	69	65	67	68	63	61	59	53	54	55	59	57	58	57	57	56	54	55
4000	69	70	66	69	67	65	64	62	56	58	59	62	60	59	59	59	57	56	56
5000	69	68	64	66	65	63	61	57	52	53	56	59	57	58	58	57	55	54	54
6300	67	67	62	65	66	63	60	57	51	53	55	58	56	55	56	57	54	52	52
8000	61	61	58	61	61	58	56	53	46	49	53	57	53	51	52	51	50	47	48
10000	57	56	52	56	55	52	51	48	40	43	46	51	48	47	48	46	44	43	43
OVERALL	82	81	78	79	79	76	75	75	74	74	74	76	77	77	76	76	75	75	73

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
IDLE, 25% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 01
AIRCRAFT CODE 037
OPERATION CODE 02013
PROFILE VERSION A
06 FEB 76
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	96.3	95.8	92.4	94.7	93.8	91.1	89.2	87.9	83.8	84.7	85.5	88.2	86.8	86.4	86.4	85.8	84.6	83.6	83.3
250	94.0	93.5	90.0	92.4	91.5	88.7	86.9	85.6	81.4	82.3	83.2	85.9	84.4	84.0	84.1	83.5	82.2	81.3	81.0
315	91.6	91.1	87.6	89.9	89.1	86.3	84.4	83.1	79.0	79.9	80.7	83.4	82.0	81.6	81.6	81.1	79.8	78.9	78.5
400	89.1	88.5	85.1	87.5	86.7	83.7	81.9	80.6	76.5	77.4	78.2	80.8	79.4	79.1	79.1	78.5	77.3	76.3	76.0
500	86.6	85.9	82.5	85.0	84.1	81.1	79.2	77.9	73.9	74.7	75.5	78.2	76.7	76.4	76.4	75.8	74.6	73.7	73.3
630	83.8	83.3	79.8	82.3	81.3	78.2	76.3	75.0	71.1	71.9	72.7	75.3	73.9	73.5	73.6	73.0	71.8	70.9	70.5
800	81.0	80.4	76.9	79.5	78.4	75.2	73.3	72.0	68.5	68.9	69.7	72.3	70.8	70.7	70.6	70.0	68.8	67.9	67.5
1000	77.9	77.5	73.9	76.5	75.3	72.0	70.1	68.8	65.8	65.7	66.5	69.0	67.6	67.7	67.4	66.9	65.6	64.7	64.4
1250	74.8	74.2	70.8	73.3	72.0	68.9	66.8	65.2	62.8	62.1	63.5	65.4	63.9	64.4	64.1	63.5	62.2	61.6	60.9
1600	71.4	70.8	67.4	69.9	68.7	65.5	63.2	61.2	59.6	58.9	60.2	61.4	60.0	60.8	60.5	59.6	58.6	58.3	57.5
2000	67.6	67.0	63.3	66.1	65.2	61.9	59.3	57.4	56.2	55.3	56.8	57.5	56.0	56.8	57.0	55.5	55.1	54.7	53.5
2500	63.5	62.8	59.8	62.0	61.4	58.0	54.9	53.0	51.9	50.8	52.2	52.8	51.1	52.0	52.4	50.7	50.4	50.0	48.6
3150	59.0	58.0	55.2	57.5	57.0	53.5	49.8	47.7	46.7	45.2	47.1	47.4	45.6	46.6	47.1	45.3	44.9	44.3	42.9
4000	54.3	53.0	50.1	52.5	52.0	48.2	43.7	41.5	40.3	39.0	40.7	41.2	39.8	40.1	40.8	38.5	37.9	37.8	36.7
5000	48.4	46.5	43.2	46.8	46.3	41.6	36.6	34.3	33.0	31.3	32.7	33.9	30.5	33.4	33.0	31.4	29.9	29.8	30.2
6300	41.4	39.0	36.6	39.8	39.5	34.4	28.7	26.3	21.7	19.8	23.1	25.0	18.2	22.4	21.8	21.4	18.3	19.4	19.6
8000	34.9	32.2	29.6	33.3	31.5	25.8	17.4	15.4	11.6	7.2	11.6	13.1	5.8	13.4	10.8	7.9	6.8	8.9	7.2
10060	25.4	21.7	19.9	23.9	18.5	12.0	6.0	4.5	1.5		.2	1.1		4.3					
12500	10.5	11.2	8.0	9.6	5.6														
16000		.7																	
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
IDLE, 25% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 01
AIRCRAFT CODE 037
OPERATION CODE 02013
PROFILE VERSION A
06 FEB 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	96.9	95.8	92.4	95.4	95.2	92.1	90.3	89.3	84.9	86.0	86.6	89.4	88.2	87.6	87.3	85.8	85.4	84.6	84.1
250	94.6	93.5	90.0	93.0	92.9	89.8	87.9	86.9	82.6	83.7	84.3	87.0	85.9	85.3	84.9	83.5	83.0	82.3	81.7
315	92.2	91.1	87.6	90.6	90.5	87.3	85.5	84.5	80.2	81.2	81.8	84.6	83.4	82.8	82.5	81.1	80.6	79.8	79.3
400	89.8	88.5	85.1	88.2	88.0	84.8	82.9	82.0	77.7	78.7	79.3	82.0	80.9	80.3	79.9	78.5	78.0	77.3	76.8
500	87.2	85.9	82.5	85.6	85.4	82.1	80.2	79.3	75.1	76.0	76.6	79.3	78.2	77.6	77.3	75.8	75.4	74.6	74.1
630	84.5	83.3	79.8	83.0	82.7	79.5	77.4	76.4	72.3	73.2	73.8	76.5	75.3	74.8	74.4	73.0	72.6	71.9	71.3
800	81.6	80.4	76.9	80.2	79.8	76.3	74.3	73.4	69.7	70.2	70.7	73.4	72.3	71.9	71.4	70.0	69.5	68.9	68.3
1000	78.6	77.5	73.9	77.2	76.7	73.1	71.1	70.2	67.0	67.0	67.6	70.1	69.0	68.9	68.2	66.9	66.4	65.7	65.2
1250	75.4	74.2	70.8	74.0	73.4	69.9	67.8	66.6	64.0	63.4	64.6	66.6	65.4	65.6	64.9	63.5	63.0	62.6	61.7
1600	72.0	70.8	67.4	70.6	70.1	66.6	64.2	62.6	60.8	60.2	61.3	62.6	61.4	62.0	61.4	59.6	59.4	59.3	58.2
2000	68.2	67.0	63.8	66.8	66.6	63.0	60.4	58.8	57.4	56.7	57.9	58.6	57.4	58.0	57.8	55.5	55.9	55.7	54.3
2500	64.1	62.8	59.8	62.7	62.7	59.1	55.9	54.4	53.1	52.1	53.3	54.0	52.5	53.2	53.2	50.7	51.1	51.0	49.4
3150	59.7	58.0	55.2	58.2	58.3	54.6	50.9	49.1	47.9	46.6	48.2	48.5	47.1	47.8	47.9	45.3	45.7	45.7	43.7
4000	54.8	53.0	50.1	53.0	53.1	49.0	44.5	42.6	41.3	40.1	41.5	42.2	40.2	41.1	41.5	38.5	38.5	38.5	37.3
5000	48.7	46.5	43.2	47.3	47.1	42.2	37.2	35.2	33.7	32.1	33.4	34.6	31.4	34.1	33.5	31.4	30.4	30.4	30.7
6300	41.6	39.0	36.6	40.1	40.0	34.8	29.1	26.9	22.2	20.3	23.5	25.4	18.8	22.9	22.1	21.4	18.7	19.7	19.9
8000	35.0	32.2	29.6	33.4	31.7	26.0	17.6	15.7	11.9	7.5	11.8	13.3	6.1	13.6	10.9	7.9	6.9	9.1	7.3
10000	25.4	21.7	19.9	23.9	18.5	12.0	6.0	4.5	1.5		.2	1.1		4.3					
12500	10.5	11.2	8.0	9.6	5.6														
16000		.7																	
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
IDLE, 25% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 01
AIRCRAFT CODE 037
OPERATION CODE 02013
PROFILE VERSION A
06 FEB 76
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	82.5	81.6	78.5	81.2	80.4	77.1	74.5	72.6	69.4	69.7	70.5	72.7	71.4	71.4	71.2	70.6	69.4	68.9	68.8
250	80.3	79.4	76.3	79.0	78.2	74.9	72.3	70.3	67.3	67.5	68.2	70.4	69.1	69.2	69.0	68.4	67.2	66.7	66.6
315	78.0	77.1	74.0	76.7	75.9	72.6	69.9	68.1	65.1	65.3	66.0	68.1	66.9	66.9	66.7	66.1	64.9	64.5	64.4
400	75.6	74.7	71.7	74.3	73.5	70.2	67.6	65.7	62.9	63.0	63.7	65.7	64.5	64.6	64.4	63.7	62.6	62.2	62.1
500	73.2	72.2	69.3	71.9	71.1	67.8	65.1	63.3	60.6	60.6	61.3	63.2	62.0	62.2	62.0	61.3	60.2	59.9	59.7
630	70.7	69.7	66.8	69.4	68.6	65.3	62.5	60.8	58.2	58.2	58.8	60.6	59.5	59.7	59.5	58.8	57.8	57.5	57.3
800	68.1	67.0	64.2	66.8	66.0	62.7	59.9	58.1	55.8	55.7	56.3	58.0	56.8	57.1	56.9	56.1	55.2	55.0	54.8
1000	65.5	64.3	61.6	64.2	63.2	60.0	57.1	55.4	53.3	53.1	53.7	55.2	54.0	54.3	54.2	53.4	52.6	52.4	52.1
1250	62.7	61.4	58.8	61.4	60.4	57.2	54.2	52.6	50.7	50.4	50.9	52.3	51.0	51.5	51.4	50.6	49.8	49.7	49.4
1600	59.7	58.3	55.9	58.4	57.4	54.3	51.2	49.7	47.9	47.6	48.1	49.4	47.9	48.5	48.5	47.6	47.0	46.9	46.6
2000	56.7	55.2	52.9	55.4	54.3	51.2	48.1	46.7	45.2	44.6	45.3	46.3	44.7	45.4	45.5	44.6	44.0	44.0	43.7
2500	53.4	51.8	49.7	52.1	51.0	48.0	44.8	43.4	41.8	41.3	41.9	42.9	41.2	42.1	42.1	41.3	40.7	40.6	40.6
3150	49.9	48.1	46.4	48.6	47.5	44.5	41.4	39.9	38.2	37.7	38.2	39.2	37.4	38.5	38.4	37.7	37.0	37.1	37.3
4000	46.1	44.2	42.7	44.8	43.7	40.8	37.7	36.0	34.2	33.8	34.1	35.2	33.3	34.6	34.4	33.8	33.1	33.2	33.6
5000	42.0	39.9	38.5	40.7	39.4	36.6	33.6	31.9	29.8	29.6	29.7	30.9	28.9	30.3	30.1	29.6	28.8	29.0	29.6
6300	37.4	35.2	34.0	36.1	34.8	32.1	29.2	27.4	25.2	25.1	25.1	26.3	24.2	25.8	25.5	25.0	24.2	24.4	25.2
8000	32.9	30.6	29.7	31.5	30.0	27.5	24.7	23.2	21.3	20.8	21.0	22.2	20.2	22.0	21.5	20.9	20.2	20.3	21.0
10000	27.9	25.6	25.0	26.5	24.9	22.5	19.9	18.7	17.2	16.4	16.8	17.9	16.0	17.8	17.3	16.5	15.9	15.9	16.5
12500	22.5	20.3	19.9	21.0	19.3	17.1	14.6	13.8	12.8	11.6	12.4	13.4	11.6	13.4	12.9	11.9	11.4	11.2	11.5
16000	16.8	14.8	14.5	15.2	13.3	11.2	8.9	8.7	8.2	6.7	7.7	8.7	7.2	8.8	8.3	7.1	6.7	6.4	6.2
20000	10.8	8.9	8.5	8.7	6.8	5.0	2.9	3.4	3.3	1.7	2.9	3.7	2.7	3.9	3.5	2.2	1.8	1.5	.6
25000	4.5	2.9	2.2	1.9															

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
IDLE, 25% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 01
AIRCRAFT CODE 037
OPERATION CODE 02013
PROFILE VERSION A
06 FEB 76

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	83.1	81.6	78.5	81.9	81.8	78.2	75.6	74.0	70.6	71.0	71.6	73.8	72.8	72.6	72.0	70.6	70.2	69.9	69.6
250	80.9	79.4	76.3	79.7	79.6	76.0	73.3	71.7	68.4	68.8	69.3	71.6	70.6	70.4	69.8	68.4	68.0	67.7	67.4
315	78.6	77.1	74.0	77.4	77.3	73.7	71.0	69.4	66.3	66.6	67.1	69.3	68.3	68.2	67.5	66.1	65.7	65.5	65.1
400	76.3	74.7	71.7	75.0	74.9	71.3	68.6	67.1	64.0	64.3	64.8	66.9	66.0	65.8	65.2	63.7	63.4	63.2	62.9
500	73.9	72.2	69.3	72.6	72.5	68.9	66.1	64.7	61.7	62.0	62.4	64.4	63.5	63.4	62.8	61.3	61.0	60.8	60.5
630	71.4	69.7	66.8	70.1	69.9	66.3	63.6	62.1	59.4	59.5	59.9	61.8	60.9	60.9	60.3	58.8	58.6	58.4	58.1
800	68.8	67.0	64.2	67.5	67.3	63.7	60.9	59.5	57.0	57.0	57.4	59.1	58.3	58.3	57.7	56.1	56.0	55.9	55.5
1000	66.1	64.3	61.6	64.9	64.6	61.0	58.2	56.8	54.5	54.4	54.8	56.4	55.4	55.6	55.1	53.4	53.4	53.3	52.9
1250	63.3	61.4	58.8	62.1	61.8	58.2	55.3	54.0	51.8	51.7	52.0	53.5	52.5	52.7	52.2	50.6	50.6	50.6	50.2
1600	60.4	58.3	55.9	59.1	58.8	55.3	52.3	51.1	49.1	48.9	49.2	50.5	49.4	49.7	49.3	47.6	47.7	47.8	47.4
2000	57.3	55.2	52.9	56.1	55.7	52.3	49.2	48.1	46.3	46.0	46.4	47.4	46.2	46.6	46.3	44.6	44.8	44.9	44.5
2500	54.1	51.8	49.7	52.8	52.4	49.0	45.9	44.8	43.0	42.6	43.0	44.0	42.6	43.3	42.9	41.3	41.4	41.6	41.4
3150	50.6	48.1	46.4	49.3	48.9	45.6	42.4	41.2	39.3	39.1	39.3	40.4	38.8	39.7	39.2	37.7	37.8	38.0	38.1
4000	46.7	44.2	42.7	45.4	44.8	41.6	38.5	37.2	35.1	34.9	35.0	36.2	34.4	35.6	35.1	33.8	33.7	34.0	34.3
5000	42.4	39.9	38.5	41.1	40.3	37.3	34.2	32.7	30.5	30.4	30.4	31.6	29.8	31.1	30.6	29.6	29.3	29.5	30.1
6300	37.7	35.2	34.0	36.4	35.4	32.6	29.6	28.0	25.7	25.6	25.5	26.8	24.8	26.3	25.8	25.0	24.5	24.8	25.5
8000	33.0	30.6	29.7	31.6	30.3	27.7	24.9	23.5	21.5	21.1	21.2	22.5	20.5	22.2	21.7	20.9	20.3	20.5	21.2
10000	27.9	25.6	25.0	26.5	24.9	22.5	19.9	18.7	17.2	16.4	16.8	17.9	16.0	17.8	17.3	16.5	15.9	15.9	16.5
12500	22.5	20.3	19.9	21.0	19.3	17.1	14.6	13.8	12.8	12.6	12.4	13.4	11.6	13.4	12.9	11.9	11.4	11.2	11.5
16000	16.8	14.8	14.5	15.2	13.3	11.2	8.9	8.7	8.2	8.7	7.7	8.7	7.2	8.8	8.3	7.1	6.7	6.4	6.2
20000	10.8	8.9	8.5	8.7	6.8	5.0	2.9	3.4	3.3	3.7	2.9	3.7	2.7	3.9	3.5	2.2	1.8	1.5	.6
25000	4.5	2.9	2.2	1.9															

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
IDLE, 25% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-937-001
RUN 01
AIRCRAFT CODE 037
OPERATION CODE 02013
PROFILE VERSION A
06 FEB 76
PAGE J1

P=PNLT A=AL T=ALT

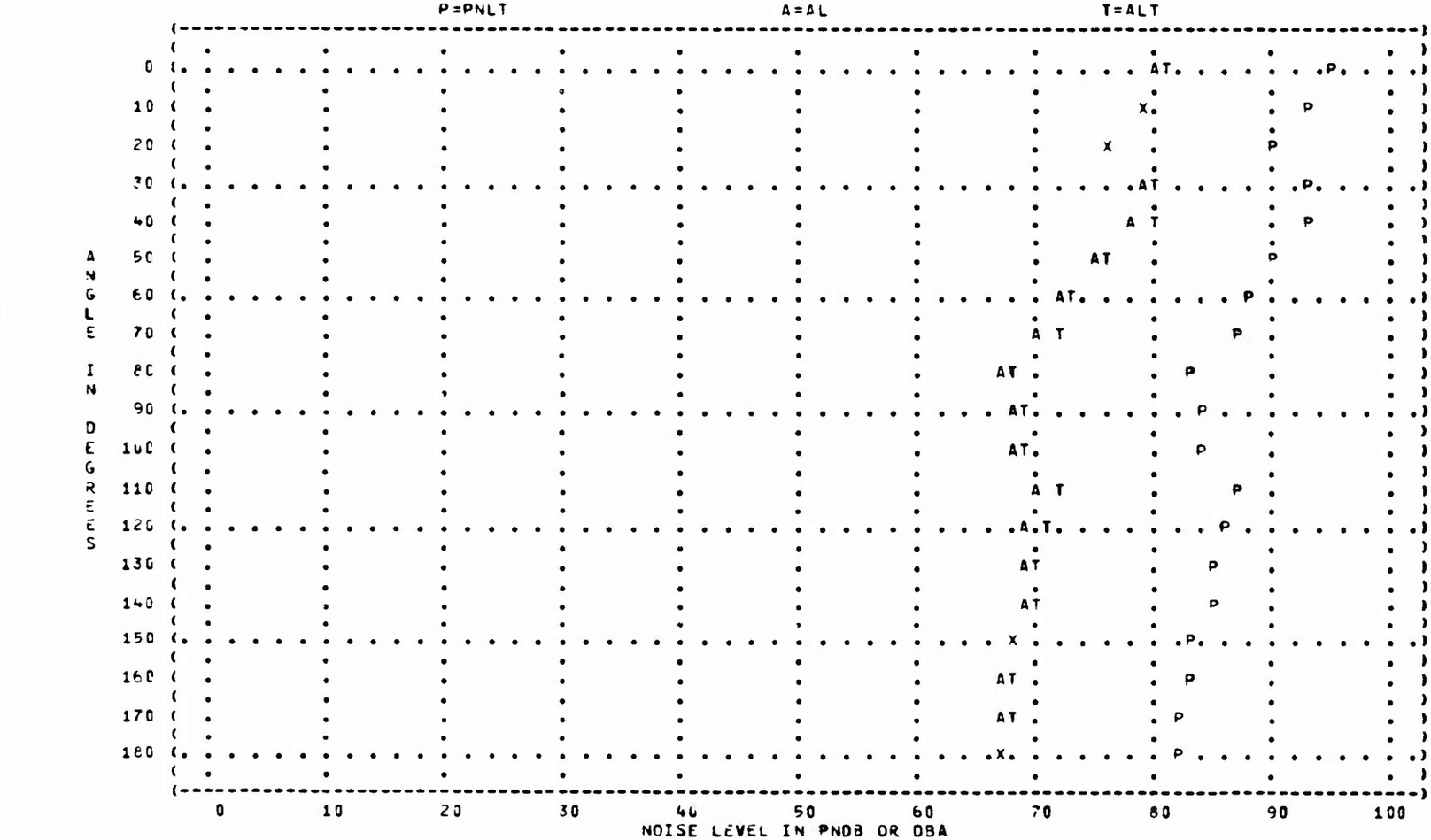


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
MAXIMUM CONTINUOUS POWER
77% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 02
AIRCRAFT CODE 037
OPERATION CODE 01005
PROFILE VERSION A
06 FEB 76
PAGE C2

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	71	71	71	73	72	73	76	75	77	78	78	82	82	83	87	93	94	93	73
63	73	74	74	74	75	75	77	78	80	83	82	84	85	86	90	94	95	92	72
80	72	72	73	74	74	75	77	79	78	78	80	81	84	86	90	92	95	91	71
100	74	75	77	76	78	78	80	79	80	81	81	83	86	89	92	94	94	92	72
125	76	77	76	76	76	77	79	79	78	80	80	83	86	87	91	92	90	89	69
160	78	78	75	75	76	75	77	79	78	79	80	83	84	87	89	91	85	84	64
200	78	78	75	76	75	77	77	76	78	80	80	81	84	87	87	86	83	80	60
250	75	76	77	76	76	77	78	78	77	79	78	81	85	86	86	85	84	77	57
315	72	76	76	74	74	73	74	76	76	76	78	79	81	85	83	81	81	73	53
400	73	74	73	73	72	72	72	75	73	75	75	77	78	80	80	77	75	70	50
500	73	74	75	74	72	72	72	74	72	73	74	75	75	78	75	72	71	66	46
630	74	74	75	75	72	73	72	72	72	72	72	73	71	73	71	71	68	65	45
800	74	73	75	75	72	74	72	72	71	71	72	71	67	71	70	73	68	65	45
1000	76	77	77	77	74	75	73	73	72	72	73	72	71	72	71	74	70	68	48
1250	78	75	77	79	74	75	74	74	72	74	74	73	74	74	73	73	70	68	48
1600	78	78	78	82	78	80	78	75	73	76	75	75	77	75	74	73	70	68	48
2000	81	81	81	82	81	81	79	76	75	78	79	77	78	75	74	75	72	69	49
2500	89	88	89	94	92	92	92	89	90	89	97	92	88	88	85	82	81	82	62
3150	87	88	89	93	91	92	91	89	89	89	95	91	89	88	85	84	81	82	62
4000	85	85	85	86	85	86	84	81	80	82	81	81	83	80	77	78	75	75	55
5000	86	86	88	91	87	88	86	83	83	86	87	84	84	81	79	79	76	73	53
6300	83	82	88	89	84	85	83	81	81	84	84	82	82	80	78	79	75	72	52
8000	76	76	79	81	80	83	81	76	78	80	80	84	82	77	75	74	70	68	48
10000	73	72	74	78	75	77	76	72	73	76	76	77	76	73	71	70	66	62	42
OVERALL	95	94	96	99	97	98	97	94	95	96	100	98	97	98	99	101	102	99	79

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 02
AIRCRAFT CODE 037
OPERATION CODE 01005
PROFILE VERSION A
06 FEB 76
PAGE D2

NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
MAXIMUM CONTINUOUS POWER
77% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	111.3	111.0	112.6	115.3	113.3	114.4	113.4	111.2	111.5	112.0	116.4	113.7	112.3	111.9	110.4	110.0	107.7	106.9	86.3
250	109.0	108.7	110.3	113.1	111.1	112.0	111.1	108.9	109.2	109.7	114.1	111.4	110.0	109.6	108.2	107.7	105.5	104.7	84.0
315	106.7	106.4	107.9	110.7	108.7	109.7	108.8	106.5	106.9	107.3	111.8	109.1	107.7	107.2	105.9	105.4	103.2	102.4	81.6
400	104.3	103.9	105.4	108.3	106.3	107.2	106.3	104.1	104.5	104.8	109.4	106.7	105.2	104.8	103.5	103.0	100.8	100.0	79.1
500	101.7	101.3	102.8	105.7	103.7	104.5	103.8	101.5	101.9	102.2	106.9	104.1	102.6	102.3	100.9	100.5	98.3	97.4	76.5
630	99.1	98.5	100.0	103.0	101.1	101.8	101.1	98.7	99.3	99.4	104.2	101.5	99.9	99.6	98.3	97.9	95.7	94.7	73.8
800	96.3	95.6	97.1	100.2	98.3	98.8	98.3	95.8	96.4	96.5	101.4	98.6	96.9	96.7	95.4	95.0	92.9	91.9	70.8
1000	93.3	92.5	94.0	97.2	95.2	95.7	95.3	92.7	93.4	93.4	98.5	95.6	93.8	93.6	92.3	92.0	89.8	88.8	67.7
1250	90.0	89.3	90.7	93.9	92.0	92.3	92.0	89.4	90.2	90.2	95.3	92.4	90.4	90.3	89.0	88.6	86.5	85.5	64.2
1600	86.5	85.7	87.2	90.4	88.5	88.8	88.5	85.9	86.7	86.6	91.8	88.9	86.6	86.8	85.4	84.9	82.9	82.0	60.4
2000	82.7	81.9	83.3	86.6	84.6	84.9	84.7	82.1	82.9	82.8	87.9	85.0	82.7	83.0	81.6	80.8	79.0	78.1	56.2
2500	78.4	77.7	79.0	82.3	80.3	80.6	80.4	77.8	78.6	78.5	83.7	80.8	78.4	78.7	77.3	76.5	74.6	73.7	51.3
3150	73.7	72.9	74.3	77.5	75.6	75.8	75.6	73.0	73.8	73.6	78.9	76.0	73.6	74.0	72.5	71.7	69.8	68.9	45.1
4000	68.4	67.6	68.9	72.1	70.1	70.4	70.2	67.5	68.3	68.2	73.5	70.5	68.1	68.5	67.0	66.2	64.2	63.2	36.7
5000	62.4	61.5	62.8	66.0	64.0	64.3	64.1	61.5	62.2	62.0	67.3	64.4	61.9	62.4	60.9	60.1	58.0	56.7	26.0
6300	55.4	54.6	55.8	59.1	56.8	57.1	56.8	54.4	54.9	54.9	60.1	57.3	54.8	55.5	53.8	53.0	50.7	49.4	14.2
8000	47.7	46.8	48.1	51.3	48.9	49.4	49.1	46.5	47.1	47.1	52.3	49.7	47.4	48.7	47.3	46.7	44.2	41.6	2.3
10000	38.9	38.9	40.2	41.8	39.1	39.7	39.3	37.9	37.0	38.0	42.8	40.4	40.4	43.2	41.6	40.8	38.3	31.3	
12500	31.5	31.4	33.0	33.1	29.0	30.6	28.9	29.6	27.8	30.4	31.2	32.4	32.7	36.7	34.9	34.0	31.0	18.9	
16000	20.9	21.3	22.9	22.2	17.3	18.1	17.7	19.9	15.9	18.3	21.4	22.7	23.7	29.3	28.0	25.9	20.8	8.4	
20000	6.8	7.4	9.1	8.2	5.6	5.6	6.6	7.4	4.1	6.1	7.9	12.0	12.0	18.5	15.8	11.9	7.3		
25000												1.3	.4	7.8	3.5				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 02
AIRCRAFT CODE 037
OPERATION CODE 01005
PROFILE VERSION A
06 FEB 76
PAGE 52

NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
MAXIMUM CONTINUOUS POWER
77% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	112.9	112.1	114.0	117.5	115.6	116.5	115.9	113.6	114.3	113.9	119.7	116.4	114.1	114.3	112.7	111.5	109.5	109.4	88.8
250	110.7	109.8	111.6	115.3	113.3	114.2	113.6	111.4	112.0	111.6	117.4	114.1	111.8	112.0	110.4	109.3	107.2	107.1	86.5
315	108.3	107.4	109.3	112.9	110.9	111.8	111.3	109.0	109.7	109.2	115.1	111.8	109.4	109.7	108.1	107.0	104.9	104.9	84.1
400	105.9	104.9	106.8	110.5	108.5	109.3	108.8	106.5	107.3	106.7	112.7	109.4	106.9	107.3	105.7	104.6	102.6	102.5	81.6
500	103.4	102.3	104.1	107.9	106.0	106.7	106.3	103.9	104.7	104.1	110.2	106.8	104.4	104.7	103.2	102.1	100.1	99.9	79.0
630	100.7	99.6	101.4	105.3	103.3	103.9	103.6	101.2	102.1	101.3	107.5	104.2	101.6	102.0	100.5	99.4	97.5	97.2	76.3
800	97.9	96.7	98.4	102.4	100.5	100.9	100.8	98.3	99.2	98.4	104.7	101.4	98.7	99.2	97.6	96.6	94.6	94.4	73.3
1000	94.9	93.6	95.4	99.4	97.4	97.8	97.8	95.1	96.2	95.4	101.7	98.3	95.5	96.0	94.6	93.5	91.6	91.3	70.2
1250	91.6	90.3	92.1	96.1	94.2	94.5	94.5	91.8	93.0	92.1	98.5	95.1	92.1	92.8	91.2	90.1	88.2	88.0	66.7
1600	88.1	86.8	88.5	92.6	90.7	90.9	91.0	88.3	89.5	88.5	95.0	91.6	88.4	89.2	87.6	86.4	84.7	84.5	62.9
2000	84.3	83.0	84.7	88.8	86.8	87.0	87.2	84.5	85.7	84.7	91.2	87.8	84.5	85.4	83.8	82.4	80.8	80.6	58.7
2500	80.0	78.7	80.4	84.5	82.6	82.7	82.9	80.3	81.4	80.4	87.0	83.5	80.2	81.2	79.5	78.0	76.4	76.2	53.8
3150	75.3	74.0	75.6	79.7	77.8	77.9	78.1	75.5	76.6	75.5	82.2	78.7	75.3	76.4	74.7	73.2	71.6	71.4	47.6
4000	69.6	68.4	70.0	73.9	71.9	72.1	72.2	69.5	70.6	69.7	76.1	72.7	69.5	70.4	68.8	67.4	65.7	65.2	38.7
5000	63.3	62.2	63.6	67.4	65.4	65.6	65.6	63.0	63.9	63.1	69.2	66.0	63.0	63.9	62.2	61.0	59.1	58.2	27.5
6300	56.1	55.0	56.4	60.0	57.7	58.0	57.9	55.4	56.0	55.6	61.4	58.4	55.5	56.5	54.7	53.7	51.4	50.4	15.2
8000	48.0	47.0	48.4	51.8	49.4	49.8	49.6	47.0	47.7	47.5	52.9	50.2	47.7	49.2	47.7	47.0	44.6	42.1	2.8
10000	38.9	38.9	40.2	41.8	39.1	39.7	39.3	37.9	37.0	38.0	42.8	40.4	40.4	43.2	41.6	40.8	38.3	31.3	
12500	31.5	31.4	33.0	33.1	29.0	30.6	28.9	29.6	27.8	30.4	31.2	32.4	32.7	36.7	34.9	34.0	31.0	18.9	
16000	20.9	21.3	22.9	22.2	17.3	18.1	17.7	19.9	15.9	18.3	21.4	22.7	23.7	29.3	28.0	25.9	20.8	8.4	
20000	6.8	7.4	9.1	8.2	5.6	5.6	6.6	7.4	4.1	6.1	7.9	12.0	12.4	18.5	15.8	11.9	7.3		
25000												1.3	3.4	7.8	3.5				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (D3A)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
MAXIMUM CONTINUOUS POWER
77% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 02
AIRCRAFT CODE 037
OPERATION CODE 01005
PROFILE VERSION A
06 FEB 76
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	97.5	97.0	98.9	102.0	99.6	100.5	99.5	96.6	97.4	97.5	103.1	99.4	96.9	96.1	94.0	93.1	90.6	90.3	70.3
250	95.2	94.7	96.5	99.7	97.3	98.2	97.2	94.3	95.1	95.2	100.8	97.1	94.6	93.8	91.7	90.8	88.4	88.1	68.1
315	92.8	92.3	94.1	97.3	94.9	95.8	94.8	91.0	92.7	92.8	98.5	94.7	92.2	91.5	89.4	88.5	86.1	85.8	65.8
400	90.3	89.8	91.6	94.8	92.5	93.3	92.4	89.5	90.3	90.3	96.1	92.3	89.7	89.1	87.1	86.2	83.8	83.4	63.4
500	87.8	87.3	88.9	92.2	89.9	90.7	89.8	87.0	87.7	87.7	93.6	89.7	87.1	86.6	84.6	83.7	81.4	81.0	61.0
630	85.1	84.6	86.2	89.5	87.3	88.0	87.2	84.3	85.1	85.0	91.0	87.1	84.4	83.9	82.0	81.1	78.8	78.4	58.4
800	82.2	81.7	83.2	86.6	84.4	85.1	84.3	81.5	82.3	82.1	88.2	84.3	81.6	81.2	79.3	78.4	76.2	75.7	55.7
1000	79.2	78.7	80.2	83.6	81.4	82.1	81.4	78.5	79.3	79.1	85.2	81.3	78.6	78.3	76.5	75.5	73.4	72.7	52.7
1250	76.1	75.5	76.9	80.4	78.2	78.8	78.2	75.3	76.1	75.8	82.1	78.1	75.4	75.2	73.3	72.4	70.3	69.6	49.6
1600	72.7	72.0	73.4	76.9	74.8	75.3	74.7	71.9	72.7	72.3	78.6	74.7	71.9	71.8	70.0	69.1	67.0	66.2	46.2
2000	69.0	68.4	69.7	73.1	71.0	71.5	70.9	68.1	68.9	68.6	74.8	71.0	68.2	68.3	66.5	65.6	63.5	62.5	42.5
2500	65.1	64.4	65.7	69.0	66.9	67.3	66.8	64.1	64.8	64.5	70.6	66.8	64.1	64.3	62.5	61.7	59.6	58.5	38.5
3150	60.9	60.2	61.4	64.5	62.3	62.8	62.3	59.6	60.2	60.0	65.9	62.2	59.7	60.0	58.2	57.6	55.3	54.0	34.0
4000	56.4	55.7	56.8	59.6	57.3	57.8	57.2	54.8	55.2	55.1	60.5	57.1	54.8	55.2	53.5	53.1	50.7	49.1	29.1
5000	51.5	50.8	51.9	54.3	51.7	52.3	51.7	49.5	49.7	49.8	54.5	51.5	49.6	50.2	48.6	48.5	45.9	44.0	24.0
6300	46.4	45.7	46.7	48.6	45.7	46.5	45.7	44.0	43.8	44.2	47.9	45.4	44.0	44.9	43.4	43.8	41.0	38.7	18.7
8000	41.3	40.8	41.7	43.0	39.8	40.8	39.9	38.9	38.3	38.9	41.2	39.8	39.1	40.5	39.2	39.6	37.1	34.3	14.3
10000	36.0	35.7	36.6	37.3	34.1	35.2	34.2	33.9	33.1	33.8	35.0	34.7	34.4	36.3	35.2	35.5	33.3	30.2	10.2
12500	30.6	30.4	31.3	31.6	28.6	29.7	28.8	28.9	28.0	28.8	29.5	29.9	29.8	32.1	31.2	31.4	29.7	26.5	6.5
16000	24.9	24.8	25.7	25.7	23.0	24.0	23.3	23.7	22.9	23.6	24.3	25.1	25.4	27.8	27.2	27.4	26.2	23.1	3.1
20000	18.8	19.0	19.7	19.5	17.2	18.0	17.7	18.3	17.5	18.4	19.0	20.1	20.9	23.4	23.3	23.6	22.9	19.9	
25000	12.4	12.8	13.3	13.0	11.2	11.8	11.9	12.8	11.9	13.0	13.6	15.1	16.3	18.8	19.3	20.0	19.7	16.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
MAXIMUM CONTINUOUS POWER
77% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 02
AIRCRAFT CODE 037
OPERATION CODE 01005
PROFILE VERSION A
06 FEB 76
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	99.1	98.1	100.2	104.2	101.8	102.6	102.0	99.1	100.2	99.4	106.4	102.1	98.6	98.5	96.2	94.6	92.4	92.8	72.8
250	96.8	95.8	97.9	101.9	99.5	100.3	99.7	96.8	97.9	97.1	104.1	99.8	96.3	96.2	94.0	92.4	90.2	90.6	70.6
315	94.4	93.4	95.5	99.5	97.1	97.9	97.3	94.4	95.5	94.7	101.8	97.4	93.9	93.9	91.7	90.1	87.9	88.3	68.3
400	91.9	90.9	92.9	97.0	94.7	95.4	94.9	92.0	93.1	92.2	99.4	95.0	91.5	91.5	89.3	87.7	85.5	85.9	65.9
500	89.4	88.3	90.3	94.4	92.1	92.8	92.3	89.4	90.0	89.6	96.9	92.4	88.9	89.0	86.8	85.2	83.1	83.5	63.5
630	86.7	85.6	87.5	91.7	89.5	90.1	89.7	86.8	87.9	86.9	94.2	89.9	86.2	86.4	84.2	82.6	80.6	80.9	60.9
800	83.8	82.8	84.6	88.9	86.6	87.2	86.8	84.0	85.1	84.0	91.5	87.0	83.3	83.7	81.5	79.9	78.0	78.1	58.1
1000	80.9	79.7	81.5	85.8	83.6	84.2	83.9	81.0	82.1	81.0	88.5	84.0	80.3	80.8	78.6	77.0	75.2	75.2	55.2
1250	77.7	76.5	78.3	82.6	80.4	80.9	80.7	77.8	78.9	77.7	85.3	80.8	77.1	77.6	75.5	73.9	72.1	72.1	52.1
1600	74.3	73.1	74.8	79.1	77.0	77.4	77.2	74.3	75.5	74.2	81.9	77.4	73.7	74.3	72.2	70.6	68.8	68.7	48.7
2000	70.6	69.4	71.0	75.3	73.2	73.0	73.4	70.6	71.7	70.5	78.1	73.7	69.9	70.7	68.7	67.1	65.3	65.0	45.0
2500	66.7	65.5	67.0	71.2	69.1	69.4	69.3	66.5	67.6	66.4	73.8	69.5	65.9	66.8	64.8	63.3	61.4	61.0	41.0
3150	62.5	61.3	62.8	66.7	64.5	64.9	64.8	62.1	63.0	61.9	69.1	64.9	61.4	62.4	60.5	59.1	57.1	56.5	36.5
4000	57.7	56.5	57.9	61.4	59.0	59.5	59.2	56.7	57.5	56.6	63.2	59.3	56.2	57.2	55.3	54.4	52.1	51.1	31.1
5000	52.5	51.5	52.7	55.6	53.0	53.6	53.2	51.0	51.4	50.9	56.5	53.1	50.6	51.6	49.9	49.5	47.0	45.5	25.5
6300	47.0	46.2	47.2	49.5	46.6	47.4	46.7	45.0	44.9	44.9	49.2	46.5	44.7	45.9	44.3	44.4	41.7	39.7	19.7
8000	41.6	41.0	41.9	43.4	41.3	41.3	40.4	39.4	38.9	39.3	41.9	40.4	39.4	41.0	39.7	39.9	37.4	34.8	14.8
10000	36.0	35.7	36.6	37.3	34.1	35.2	34.2	33.9	33.1	33.8	35.0	34.7	34.4	36.3	35.2	35.5	33.3	30.2	10.2
12500	30.6	30.4	31.3	31.6	28.6	29.7	28.8	28.9	28.0	28.8	29.5	29.9	29.8	32.1	31.2	31.4	29.7	26.5	6.5
16000	24.9	24.8	25.7	25.7	23.0	24.0	23.3	23.7	22.9	23.6	24.3	25.1	25.4	27.8	27.2	27.4	26.2	23.1	3.1
20000	18.8	19.0	19.7	19.5	17.2	18.0	17.7	18.3	17.5	18.4	19.0	20.1	20.9	23.4	23.3	23.6	22.9	19.9	
25000	12.4	12.8	13.3	13.0	11.2	11.8	11.9	12.8	11.9	13.0	13.6	15.1	16.3	18.8	19.3	20.0	19.7	16.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

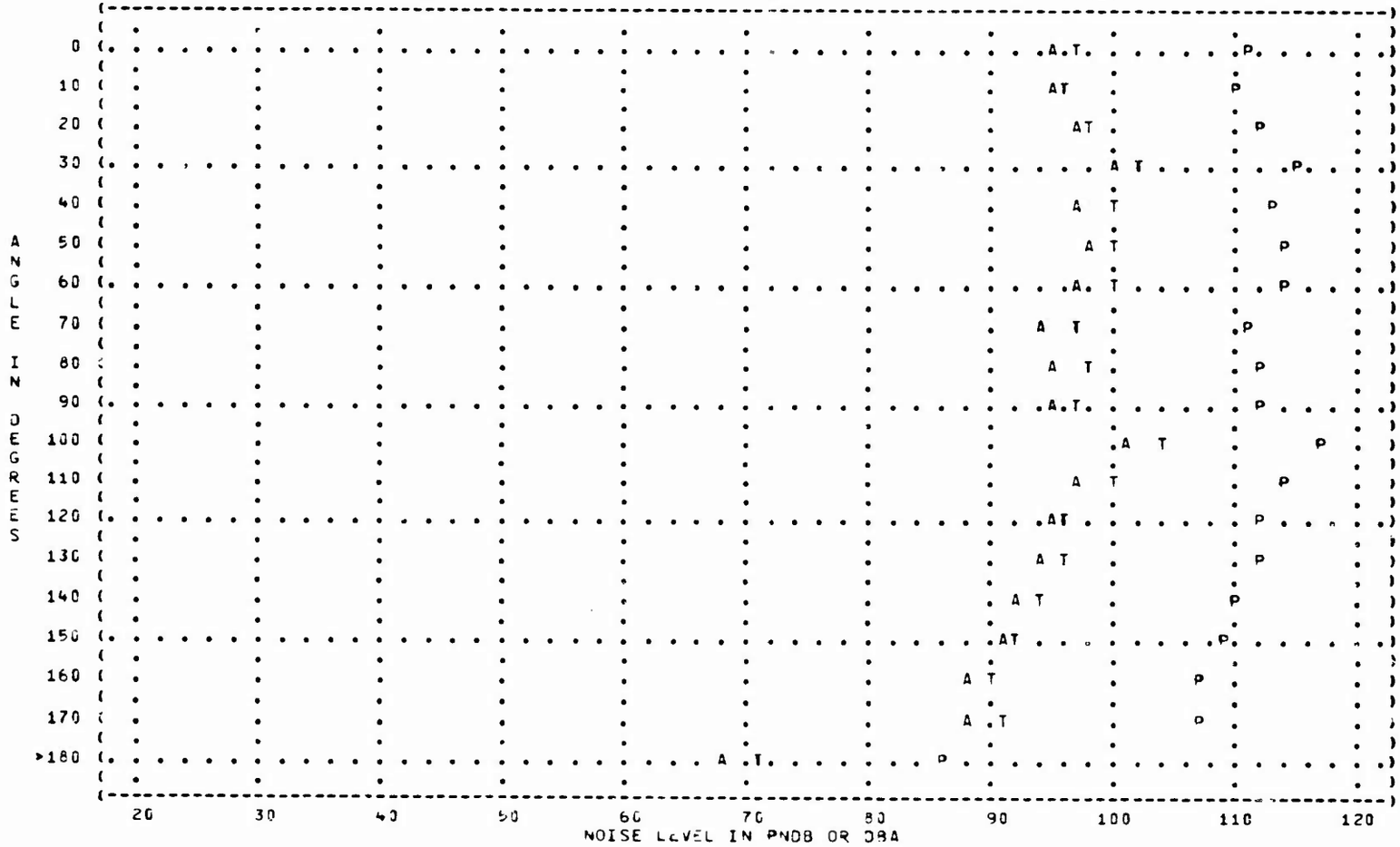
NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
MAXIMUM CONTINUOUS POWER
77% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 02
AIRCRAFT CODE 037
OPERATION CODE 01005
PROFILE VERSION A
06 FEB 76
PAGE J2

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 03

NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
MAXIMUM POWER, 84% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

AIRCRAFT CODE 037
OPERATION CODE 01030
PROFILE VERSION A
06 FEB 76
PAGE C3

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	72	72	73	74	75	75	77	77	78	80	81	83	85	88	92	96	100	95	75
63	74	76	74	75	75	78	79	80	81	83	83	85	87	88	94	97	101	94	74
80	74	75	77	76	77	79	80	81	82	83	83	86	87	91	94	97	101	94	74
100	78	78	80	79	81	82	83	83	83	85	85	86	89	92	97	97	101	94	74
125	80	82	80	79	79	80	82	81	82	83	84	88	90	92	96	97	94	91	71
160	81	83	80	79	78	79	80	81	82	83	84	86	90	92	95	97	91	87	67
200	80	81	79	79	78	80	80	80	80	82	85	86	89	92	94	93	91	83	63
250	77	80	81	78	79	79	81	80	80	82	84	85	89	90	91	90	90	82	62
315	75	79	80	78	78	77	78	80	78	79	83	84	88	89	89	88	86	77	57
400	76	79	78	76	77	75	77	78	75	78	80	81	84	85	85	84	82	74	54
500	74	76	77	77	76	76	76	77	75	76	78	78	81	81	80	78	78	71	51
630	75	76	77	77	75	76	78	77	74	76	77	79	79	77	78	75	75	73	53
800	75	76	78	77	77	78	79	77	75	77	80	80	76	78	81	75	75	71	51
1000	76	77	80	81	80	83	83	80	78	80	81	82	80	80	82	79	78	72	52
1250	79	83	82	81	82	84	88	84	82	83	83	82	82	84	82	79	79	75	55
1600	78	80	82	83	82	83	83	82	79	82	82	80	81	80	80	77	77	75	55
2000	79	80	80	85	85	86	85	82	82	83	83	83	80	82	80	81	77	76	56
2500	85	85	85	89	86	88	86	85	83	86	86	85	82	81	82	79	80	78	58
3150	92	92	91	98	93	99	97	95	94	98	99	97	92	88	91	87	86	87	67
4000	84	84	84	88	87	90	91	88	84	85	86	85	83	82	82	80	79	78	56
5000	83	82	83	86	84	85	85	83	81	83	83	81	79	79	78	75	74	73	53
6300	83	83	83	87	85	87	86	85	85	86	86	85	84	82	82	79	78	73	53
8000	77	77	76	80	79	80	79	78	76	78	79	77	76	74	74	71	71	66	46
10000	75	75	72	78	77	78	78	76	75	79	78	79	76	74	73	70	69	68	44
OVERALL	96	96	96	100	97	101	100	98	97	100	101	100	100	101	104	105	107	101	81

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
MAXIMUM POWER, 84% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 03
AIRCRAFT CODE 037
OPERATION CODE 01030
PROFILE VERSION A
06 FEB 76
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	113.5	113.9	113.4	118.0	114.6	118.7	118.1	116.2	115.0	117.7	118.8	117.7	114.8	113.6	115.2	113.2	112.5	110.3	89.9
250	111.2	111.6	111.1	115.7	112.3	116.4	115.8	113.9	112.8	115.4	116.5	115.4	112.5	111.3	113.0	111.0	110.3	108.1	87.6
315	108.8	109.3	108.8	113.3	109.9	114.0	113.4	111.6	110.4	113.1	114.1	113.0	110.2	109.0	110.7	108.7	108.1	105.8	85.2
400	106.4	106.8	106.3	110.8	107.5	111.6	110.9	109.1	107.9	110.6	111.7	110.6	107.8	106.6	108.3	106.4	105.8	103.4	82.7
500	103.8	104.2	103.8	108.3	104.9	109.0	108.4	106.5	105.4	108.0	109.1	108.1	105.2	104.1	105.8	103.9	103.3	100.9	80.1
630	101.0	101.5	101.0	105.5	102.2	106.3	105.6	103.8	102.6	105.3	106.4	105.4	102.6	101.5	103.2	101.3	100.8	98.3	77.4
800	98.1	98.6	98.2	102.6	99.3	103.3	102.7	100.9	99.7	102.4	103.5	102.5	99.7	98.7	100.4	98.6	98.1	95.5	74.6
1000	95.0	95.5	95.1	99.5	96.1	100.2	99.6	97.8	96.6	99.3	100.4	99.4	96.7	95.6	97.4	95.6	95.2	92.4	71.5
1250	91.6	92.1	91.7	96.1	92.7	96.8	96.2	94.4	93.2	95.9	97.0	96.0	93.3	92.3	94.1	92.4	91.9	89.1	68.1
1600	87.8	88.4	88.0	92.4	89.0	93.1	92.5	90.7	89.5	92.2	93.3	92.3	89.7	88.7	90.5	88.7	88.4	85.4	64.2
2000	83.8	84.4	84.0	88.3	85.0	89.0	88.5	86.7	85.4	88.1	89.2	88.3	85.7	84.7	86.5	84.7	84.3	81.4	59.9
2500	79.2	79.8	79.5	83.7	80.4	84.4	83.9	82.1	80.9	83.5	84.7	83.7	81.2	80.3	82.0	80.2	79.7	76.8	54.8
3150	74.0	74.7	74.4	78.5	75.3	79.2	78.8	77.0	75.7	78.4	79.5	78.6	76.2	75.3	77.0	75.1	74.6	71.7	48.9
4000	68.1	68.9	68.7	72.6	69.5	73.3	72.9	71.1	69.7	72.4	73.6	72.7	70.4	69.8	71.3	69.3	68.8	65.8	40.9
5000	61.5	62.4	62.3	65.9	63.2	66.6	66.3	64.5	63.1	65.7	66.9	66.1	64.0	64.7	65.1	63.8	63.1	59.1	31.5
6300	54.0	56.4	56.4	58.3	56.9	59.0	60.4	57.8	55.7	58.1	59.4	58.8	58.0	59.2	59.4	57.6	57.4	51.9	15.7
8000	47.4	50.7	50.5	51.3	50.4	52.5	54.7	51.9	49.8	51.6	52.6	52.6	53.1	54.1	54.5	52.7	52.2	45.9	
10000	40.5	43.9	43.5	44.2	43.3	46.0	48.2	45.1	42.6	44.5	46.1	46.7	47.8	48.2	49.2	47.7	47.2	39.9	
12500	32.7	35.2	36.3	36.0	35.1	37.7	39.9	36.8	34.3	35.8	38.6	39.7	41.9	42.6	43.6	42.5	42.1	31.9	
16000	22.7	27.4	28.7	27.4	26.6	27.9	30.2	28.5	25.3	27.0	31.3	32.1	35.5	36.5	37.9	36.4	36.4	20.8	
20000	11.4	15.3	17.3	14.3	13.9	15.3	17.7	15.8	10.0	14.2	20.7	21.1	27.2	28.6	30.6	28.7	29.3	7.7	
25000	.2	3.2	5.9	1.3	1.2	2.7	5.2	3.2		1.4	10.1	10.1	15.4	17.2	21.5	19.8	17.9		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNOB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 03
AIRCRAFT CODE 037
OPERATION CODE 01330
PROFILE VERSION A
06 FEB 76
PAGE E3

NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
MAXIMUM POWER, 84% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	116.1	116.5	115.6	121.2	116.6	122.0	120.9	119.2	118.6	121.7	123.0	121.6	117.8	115.9	118.1	115.8	114.8	113.8	93.3
250	113.8	114.2	113.3	118.9	114.3	119.7	118.6	116.9	116.3	119.4	120.8	119.4	115.6	113.7	115.8	113.6	112.6	111.5	91.0
315	111.4	111.9	110.9	116.5	111.9	117.3	116.2	114.5	113.9	117.0	118.4	117.0	113.2	111.4	113.5	111.3	110.4	109.2	88.6
400	108.9	109.4	108.5	114.1	109.4	114.9	113.8	112.1	111.4	114.6	115.9	114.5	110.8	109.0	111.2	109.0	108.1	106.9	86.2
500	106.3	106.8	105.9	111.5	106.8	112.3	111.2	109.5	108.9	112.0	113.4	112.0	108.3	106.5	108.7	106.5	105.6	104.4	83.6
630	103.6	104.1	103.2	108.8	104.1	109.5	108.5	106.8	106.1	109.3	110.7	109.3	105.6	103.8	106.1	103.9	103.1	101.8	80.9
800	100.7	101.2	100.3	105.8	101.2	106.6	105.6	103.9	103.2	106.4	107.8	106.4	102.8	101.0	103.3	101.2	100.4	98.9	78.0
1000	97.5	98.1	97.2	102.7	98.1	103.5	102.4	100.8	100.1	103.3	104.7	103.3	99.7	98.0	100.3	98.2	97.5	95.9	74.9
1250	94.1	94.7	93.9	99.3	94.7	100.1	99.1	97.4	96.7	99.9	101.3	100.0	96.4	94.7	97.0	95.0	94.2	92.6	71.5
1600	90.4	91.0	90.2	95.6	91.0	96.4	95.4	93.7	93.0	96.2	97.6	96.3	92.7	91.1	93.4	91.3	90.7	88.9	67.7
2000	86.3	87.0	86.2	91.5	86.9	92.3	91.3	89.6	89.0	92.1	93.5	92.2	88.7	87.1	89.4	87.3	86.6	84.8	63.3
2500	81.7	82.4	81.7	86.9	82.4	87.7	86.7	85.1	84.4	87.5	88.9	87.7	84.2	82.7	84.9	82.8	82.0	80.3	58.3
3150	76.6	77.3	76.6	81.7	77.3	82.5	81.6	79.9	79.2	82.3	83.8	82.6	79.2	77.7	79.9	77.7	76.9	75.2	52.4
4000	70.1	71.0	70.4	75.1	71.0	75.9	75.2	73.4	72.6	75.6	77.0	75.9	72.8	71.7	73.6	71.4	70.7	68.6	43.7
5000	63.1	63.9	63.5	67.8	64.3	68.6	68.0	66.3	65.2	68.1	69.5	68.5	65.8	66.1	66.8	65.3	64.5	61.2	33.6
6300	55.0	57.5	57.3	59.6	57.7	60.4	61.5	59.0	57.1	59.7	61.1	60.4	59.2	60.2	60.6	58.7	58.3	53.2	17.1
8000	47.9	51.2	50.9	52.0	50.8	53.2	55.3	52.5	50.5	52.4	53.5	53.4	53.7	54.6	55.1	53.2	52.7	46.6	.6
10000	40.5	43.9	43.5	44.2	43.3	46.0	48.2	45.1	42.6	44.5	46.1	46.7	47.8	48.2	49.2	47.7	47.2	39.9	
12500	32.7	35.2	36.3	36.0	35.1	37.7	39.9	36.8	34.3	35.8	38.6	39.7	41.9	42.6	43.6	42.5	42.1	31.9	
16000	22.7	27.4	28.7	27.4	26.6	27.9	30.2	28.5	25.3	27.0	31.3	32.1	35.5	36.5	37.9	36.4	36.4	20.8	
20000	11.4	15.3	17.3	14.3	13.9	15.3	17.7	15.8	10.3	14.2	20.7	21.1	27.2	28.6	30.6	28.7	29.3	7.7	
25000	.2	3.2	5.9	1.3	1.2	2.7	5.2	3.2		1.4	10.1	10.1	15.4	17.2	21.5	19.8	17.9		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
MAXIMUM POWER, 84% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 03
AIRCRAFT CODE 037
OPERATION CODE 01030
PROFILE VERSION A
06 FEB 76
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	98.1	98.4	98.0	103.0	99.5	103.7	103.0	100.8	99.5	102.3	103.3	101.8	98.2	97.1	98.2	96.1	95.1	92.8	72.8
250	95.8	96.1	95.7	100.7	97.2	101.4	100.8	98.5	97.2	100.0	101.0	99.5	95.9	94.9	96.0	93.9	92.9	90.6	70.6
315	93.4	93.7	93.4	98.3	94.8	99.1	98.4	96.2	94.8	97.7	98.7	97.2	93.6	92.6	93.7	91.7	90.7	88.3	68.3
400	90.9	91.3	91.0	95.8	92.4	96.6	95.9	93.7	92.4	95.2	96.2	94.7	91.2	90.3	91.4	89.5	88.4	86.0	66.0
500	88.4	88.7	88.4	93.3	89.8	94.1	93.4	91.2	89.8	92.6	93.7	92.2	88.7	87.9	89.0	87.1	86.1	83.5	63.5
630	85.7	86.1	85.8	90.6	87.1	91.3	90.7	88.5	87.1	90.0	91.0	89.5	86.2	85.4	86.4	84.6	83.6	80.9	60.9
800	82.8	83.3	83.0	87.7	84.3	88.5	87.9	85.6	84.3	87.1	88.1	86.7	83.4	82.8	83.8	82.0	81.1	78.2	58.2
1000	79.8	80.3	80.1	84.7	81.3	85.4	84.9	82.6	81.2	84.1	85.1	83.7	80.6	80.1	81.0	79.2	78.4	75.3	55.3
1250	76.5	77.1	77.0	81.4	78.1	82.1	81.6	79.4	78.0	80.8	81.8	80.5	77.6	77.2	78.0	76.2	75.4	72.2	52.2
1600	73.0	73.8	73.7	77.8	74.8	78.6	78.2	75.9	74.5	77.2	78.3	77.0	74.3	74.1	74.9	73.1	72.3	68.9	48.9
2000	69.3	70.2	70.2	73.9	71.1	74.8	74.5	72.2	70.7	73.4	74.4	73.2	71.0	70.9	71.5	69.7	68.9	65.3	45.3
2500	65.2	66.3	66.5	69.7	67.3	70.6	70.6	68.2	66.7	69.1	70.2	69.1	67.3	67.4	67.9	65.9	65.2	61.4	41.4
3150	60.9	62.2	62.5	65.2	63.2	66.1	66.4	64.0	62.3	64.6	65.6	64.7	63.3	63.6	64.0	61.8	61.2	57.2	37.2
4000	56.3	57.9	58.4	60.3	58.8	61.4	62.1	59.5	57.7	59.8	60.7	60.1	59.1	59.5	59.8	57.4	56.8	52.7	32.7
5000	51.5	53.3	54.0	55.2	54.2	56.6	57.6	54.9	53.0	54.7	55.7	55.4	54.6	55.2	55.5	52.9	52.4	48.0	28.0
6300	46.5	48.5	49.3	50.0	49.3	51.6	52.8	50.0	48.0	49.6	50.7	50.5	49.9	50.6	50.9	48.2	47.8	43.2	23.2
8000	41.7	43.7	44.7	44.9	44.4	46.5	47.9	45.2	43.2	44.7	45.9	45.9	45.6	46.3	46.8	44.2	43.9	38.9	18.9
10000	36.8	38.7	39.7	39.6	39.2	41.2	42.6	40.0	38.0	39.5	40.9	41.2	41.1	41.8	42.4	40.2	40.0	34.7	14.7
12500	31.6	33.3	34.4	34.1	33.6	35.5	36.7	34.5	32.6	34.0	35.7	36.1	36.5	37.1	38.0	36.2	36.1	30.5	10.5
16000	26.0	27.7	28.7	28.3	27.8	29.2	30.4	28.7	26.8	28.2	30.1	30.7	31.7	32.3	33.4	32.3	32.4	26.6	6.6
20000	20.2	21.8	22.7	22.1	21.6	22.6	23.6	22.6	20.9	22.3	24.3	25.2	26.8	27.6	29.0	28.5	29.0	22.9	2.9
25000	14.1	15.9	16.4	15.6	15.2	15.7	16.8	16.4	15.0	16.4	18.5	19.5	21.9	23.0	24.7	24.9	25.6	19.5	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
MAXIMUM POWER, 84% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 03
AIRCRAFT CODE 037
OPERATION CODE 01030
PROFILE VERSION A
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PAGE G3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	100.7	101.0	100.2	106.2	101.4	107.0	105.9	103.8	103.0	106.3	107.6	105.8	101.2	99.4	101.0	98.7	97.4	96.3	76.3
250	98.4	98.7	97.9	103.9	99.1	104.7	103.6	101.5	100.7	104.0	105.3	103.5	99.0	97.2	98.8	96.5	95.2	94.1	74.1
315	96.0	96.3	95.5	101.5	96.8	102.3	101.2	99.1	98.3	101.6	102.9	101.1	96.6	95.0	96.6	94.3	93.0	91.8	71.8
400	93.5	93.9	93.1	99.1	94.3	99.9	98.8	96.7	95.9	99.2	100.5	98.7	94.3	92.7	94.2	92.1	90.7	89.4	69.4
500	90.9	91.4	90.6	96.5	91.7	97.3	96.2	94.1	93.3	96.6	97.9	96.1	91.8	90.3	91.8	89.7	88.4	87.0	67.0
630	88.2	88.7	87.9	93.8	89.1	94.6	93.5	91.4	90.6	93.9	95.3	93.5	89.2	87.8	89.3	87.2	85.9	84.4	64.4
800	85.4	85.9	85.2	90.9	86.3	91.8	90.7	88.6	87.8	91.1	92.4	90.7	86.5	85.2	86.7	84.6	83.4	81.7	61.7
1000	82.3	82.9	82.2	87.9	83.3	88.7	87.7	85.6	84.8	88.0	89.4	87.7	83.6	82.5	83.9	81.8	80.7	78.8	58.8
1250	79.1	79.8	79.1	84.6	80.1	85.4	84.5	82.3	81.5	84.8	86.1	84.4	80.6	79.6	80.9	78.8	77.7	75.7	55.7
1600	75.6	76.4	75.8	81.0	76.7	81.9	81.0	78.9	78.0	81.2	82.5	80.9	77.4	76.5	77.7	75.7	74.6	72.3	52.3
2000	71.8	72.8	72.3	77.2	73.1	78.0	77.3	75.2	74.3	77.3	78.7	77.2	74.0	73.3	74.4	72.3	71.2	68.7	48.7
2500	67.8	68.9	68.6	73.0	69.2	73.9	73.4	71.2	70.2	73.1	74.4	73.1	70.3	69.8	70.8	68.5	67.5	64.8	44.8
3150	63.4	64.8	64.7	68.4	65.1	69.4	69.2	66.9	65.8	68.6	69.8	68.7	66.3	66.0	66.9	64.4	63.5	60.6	40.5
4000	58.3	60.0	60.1	62.9	60.4	64.1	64.3	61.9	60.5	62.9	64.2	63.3	61.5	61.4	62.1	59.5	58.7	55.4	35.4
5000	53.0	54.9	55.3	57.1	55.3	58.5	59.3	56.6	55.1	57.1	58.3	57.7	56.4	56.6	57.2	54.4	53.8	50.1	30.1
6300	47.5	49.5	50.2	51.2	50.1	52.9	54.0	51.2	49.4	51.2	52.4	52.1	51.1	51.5	52.0	49.2	48.7	44.5	24.5
8000	42.2	44.2	45.1	45.5	44.8	47.2	48.5	45.8	43.9	45.4	46.7	46.7	46.2	46.8	47.3	44.7	44.3	39.6	19.6
10000	36.8	38.7	39.7	39.6	39.2	41.2	42.6	40.0	38.0	39.5	40.9	41.2	41.1	41.8	42.4	40.2	40.0	34.7	14.7
12500	31.6	33.3	34.4	34.1	33.6	35.5	36.7	34.5	32.6	34.0	35.7	36.1	36.5	37.1	38.0	36.2	36.1	30.5	10.5
16000	26.0	27.7	28.7	28.3	27.8	29.2	30.4	28.7	26.8	28.2	30.1	30.7	31.7	32.3	33.4	32.3	32.4	26.6	6.6
20000	20.2	21.8	22.7	22.1	21.6	22.6	23.6	22.6	20.9	22.3	24.3	25.2	26.8	27.6	29.0	28.5	29.0	22.9	2.9
25000	14.1	15.9	16.4	15.6	15.2	15.7	16.8	16.4	15.0	16.4	18.5	19.5	21.9	23.0	24.7	24.9	25.6	19.5	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

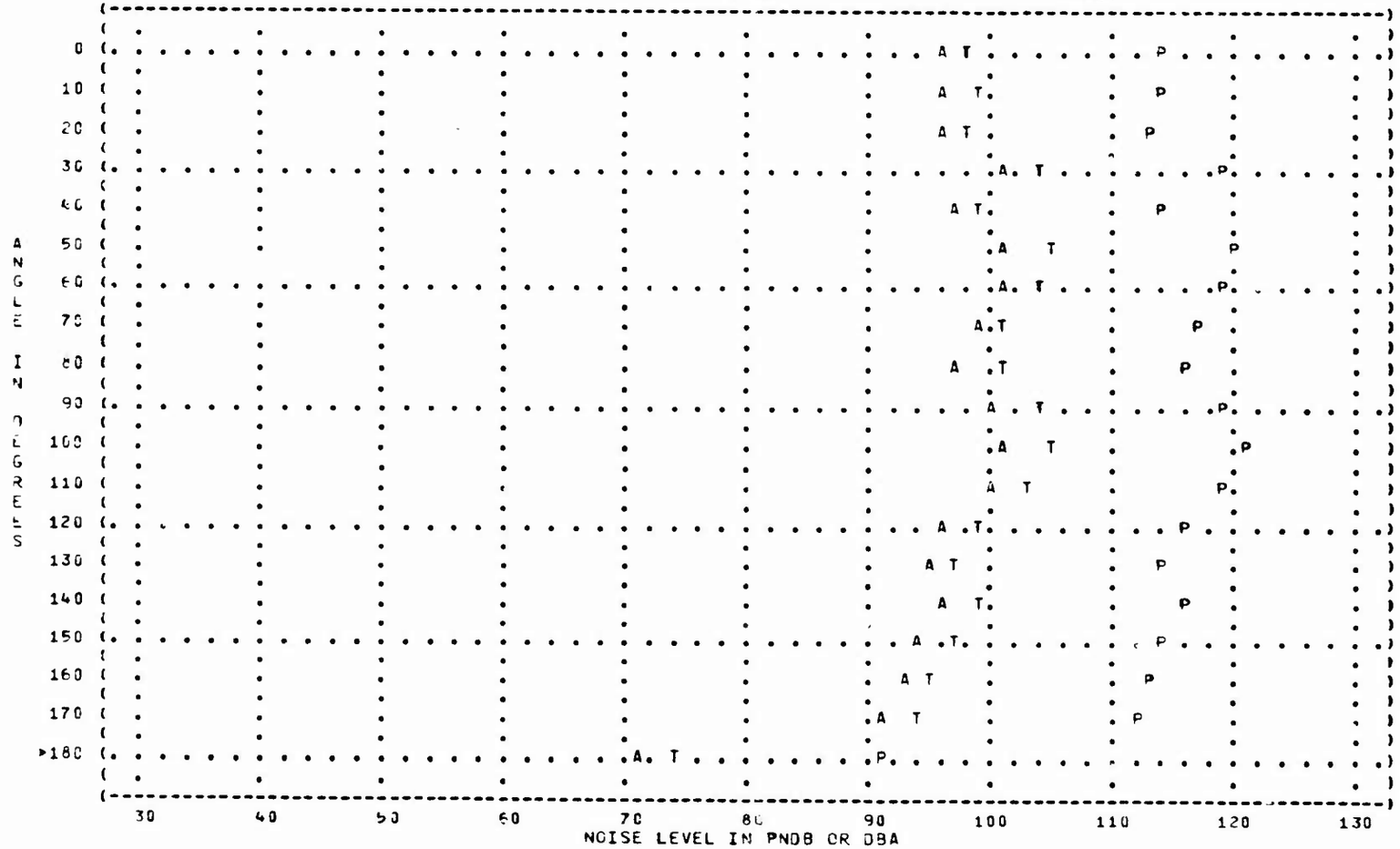
NOISE SOURCE/SUBJECT:
A-10A AIRCRAFT
ENG. TF34-GE-100
GROUND RUNUP

OPERATION:
MAXIMUM POWER, 84% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-037-001
RUN 03
AIRCRAFT CODE 037
OPERATION CODE 01030
PROFILE VERSION A
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P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF A-37 AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

A-37 AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 504
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

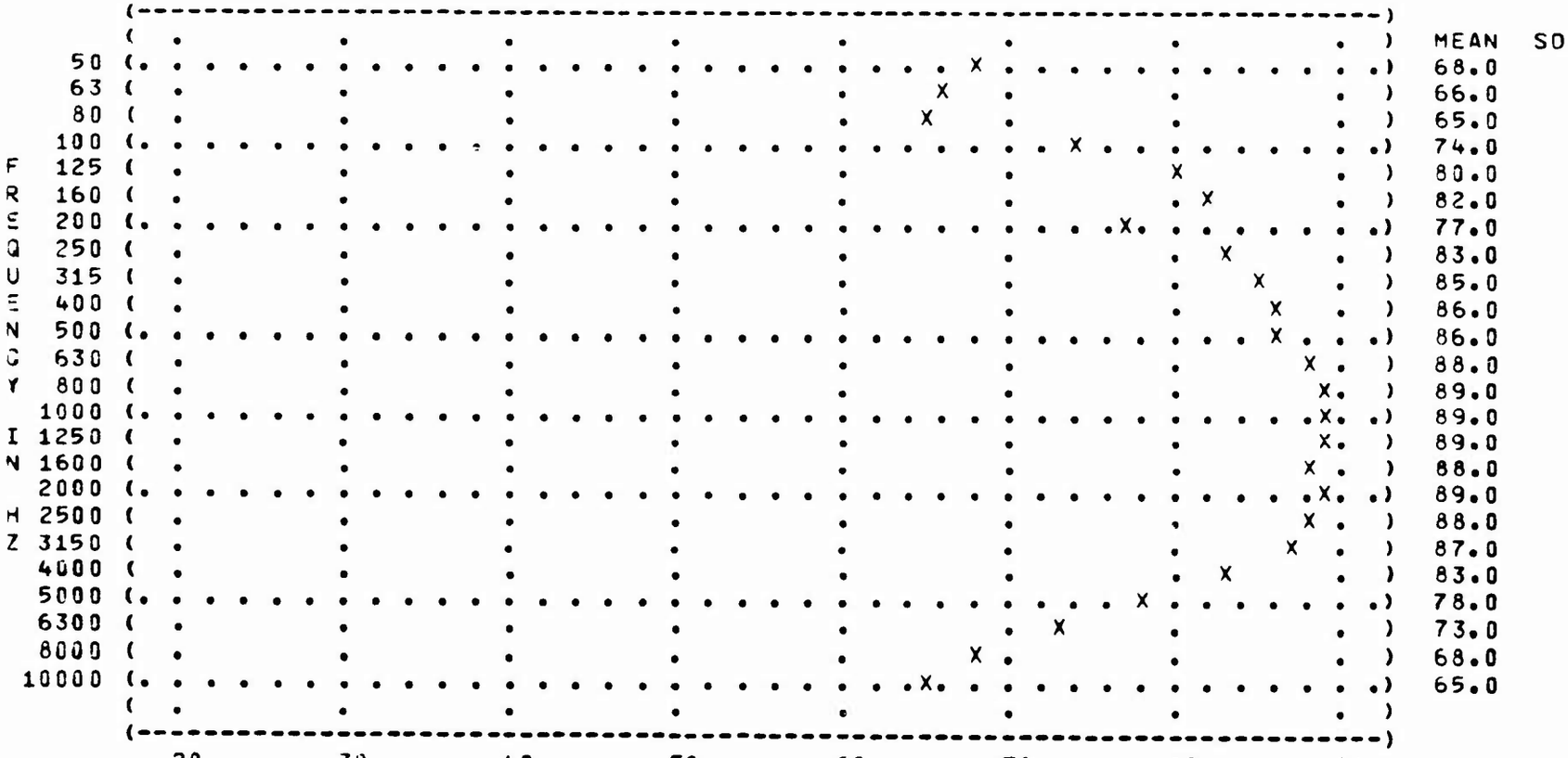
POWER SETTING	PAGE
TAKEOFF, 100% RPM	120-128
CRUISE, 90% RPM	129-137
APPROACH, 91% RPM	138-146

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

- NORMALIZED MEAN SPL SPECTRUM AT PNLM
- NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
  - AIR-TO-GROUND PROPAGATION
    - SOUND PRESSURE LEVEL SPECTRA
    - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
  - GROUND-TO-GROUND PROPAGATION
    - SOUND PRESSURE LEVEL SPECTRA
    - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

27 FEB 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO



A-37 TAKEOFF POWER 100 % RPM

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-504-103-270276

PNLT = 111.0 PNDB
PNL = 110.4 PNDB
ALT = 99.0 DBA
AL = 98.4 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-37

OPERATION:
TAKEOFF POWER
100 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 504
OPS CODE: 103
PROFILE VER: A
27 FEB 76
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	82	80	79	88	94	96	91	97	99	100	101	103	104	104	105	104	106	105	105	103	99	97	97	101
250	80	78	77	86	92	94	89	95	97	98	99	101	102	102	102	102	103	103	103	101	97	95	94	98
315	78	76	75	84	90	92	87	93	95	96	97	99	100	100	100	100	101	101	101	98	94	92	91	94
400	76	74	73	82	88	90	85	91	93	94	94	97	98	98	98	97	99	98	98	96	92	89	87	90
500	74	72	71	80	86	88	83	89	91	92	92	94	96	96	96	95	97	96	96	93	89	86	83	85
630	72	70	69	78	84	86	81	87	89	90	90	92	93	94	94	93	94	94	93	90	85	82	79	79
800	70	68	67	76	82	84	79	85	87	88	88	90	91	91	91	91	92	91	90	87	82	78	74	73
1000	68	66	65	74	80	82<	77	83	85	86	86	88	89	89	89	88	89	88	87	83	78	73	68	65
1250	66	64	63	72	78	80	75	81	83	84	84	86	87	87	87	85	86	85	84	79	74	68	61	56
1600	64	62	61	70	76	78	73	79	81	82	82	83	84	84	84	83	83	82	80	74	69	61	53	45
2000	62	60	59	68	74	76	71	77	79	79	79	81	82	82	81	80	80	78	75	69	63	54	43	31
2500	60	58	57	66	72	74	69	74	76	77	77	79	79	79	78	76	76	74	71	63	56	45	31	15
3150	58	56	55	64	70	71	66	72	74	75	74	76	76	76	75	73	72	69	65	56	48	35	17	
4000	56	54	53	62	67	69	64	70	72	72	72	73	73	73	71	69	68	64	58	48	38	22		
5000	54	52	51	59	65	67	62	68	69	70	69	70	70	69	67	64	62	57	51	38	27	7		
6300	52	50	48	57	63	65	59	65	67	67	66	67	67	65	63	59	56	50	41	26	13			
8000	50	47	46	55	61	62	57	62	64	64	63	63	63	61	58	53	49	41	30	11				
10000	47	45	44	53	58	60	54	60	61	61	59	60	58	55	52	46	41	31	17					
12500	45	43	42	50	56	57	52	57	58	57	55	55	53	50	45	38	31	18	0					
16000	43	41	39	48	53	55	49	54	54	53	51	50	47	43	37	28	19	3						
20000	41	38	37	45	51	52	45	50	50	49	46	44	40	34	27	16	4							
25000	38	36	34	43	48	48	42	46	46	44	40	37	32	25	15	1								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: A-37

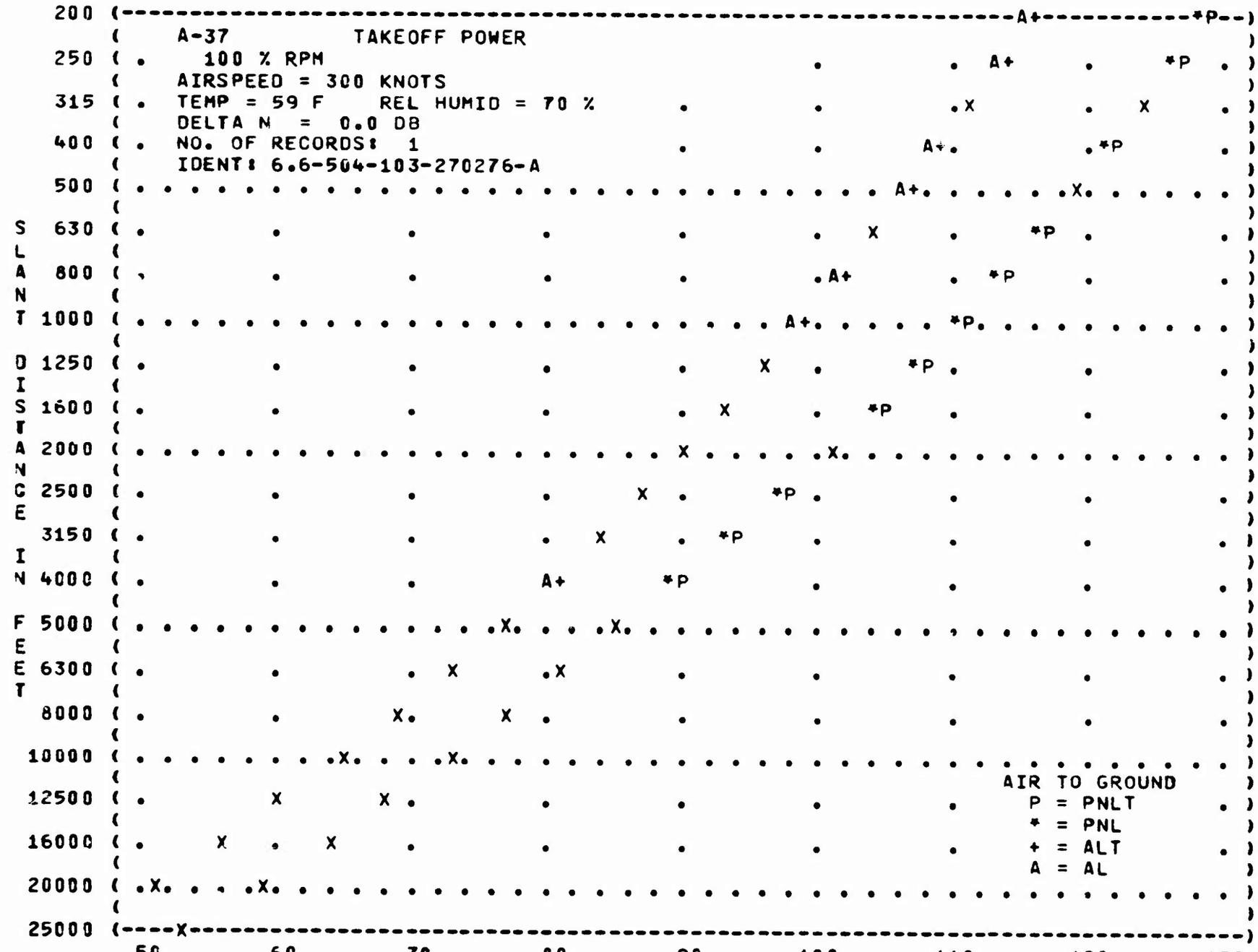
OPERATION: TAKEOFF POWER 100 % RPM AIRSPEED = 300 KNOTS

METEOROLOGY: TEMP = 59 F REL HUMID = 70 % DELTA N = 0.0 DB

A/C CODE: 504
OPS CODE: 103
PROFILE VER: A
27 FEB 76
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	115.2	115.7	128.5	129.1	115.2	116.1	118.6
250	112.9	113.5	126.2	126.8	113.9	114.8	117.3
315	110.7	111.2	123.8	124.4	112.7	113.6	116.0
400	108.3	108.9	121.4	122.0	111.3	112.2	114.6
500	106.0	106.5	118.9	119.4	110.0	110.9	113.0
630	103.5	104.1	116.2	116.8	108.5	109.4	111.4
800	101.0	101.6	113.4	114.0	107.0	107.9	109.6
1000	98.4	99.0	110.4	111.0	105.4	106.3	107.6
1250	95.7	96.3	107.4	108.0	103.7	104.6	105.6
1600	92.9	93.4	104.2	104.8	101.9	102.8	103.4
2000	89.9	90.5	100.8	101.3	99.9	100.8	100.9
2500	86.8	87.4	97.2	97.8	97.8	98.7	98.4
3150	83.6	84.2	93.4	94.0	95.6	96.5	95.6
4000	80.2	80.7	89.4	89.8	93.2	93.9	92.3
5000	76.6	77.0	84.9	85.3	90.6	91.2	88.7
6300	72.9	73.1	81.0	81.2	87.9	88.3	85.6
8000	68.9	69.1	77.0	77.1	84.9	85.1	82.4
10000	64.8	64.8	72.9	72.9	81.8	81.8	79.1
12500	60.4	60.4	68.5	68.5	78.4	78.4	75.7
16000	55.7	55.7	63.8	63.8	74.7	74.7	72.0
20000	50.9	50.9	58.7	58.7	70.9	70.9	67.9
25000	45.8	45.8	53.3	53.3	66.8	66.8	63.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-37 TAKEOFF POWER
100 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-504-103-270276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

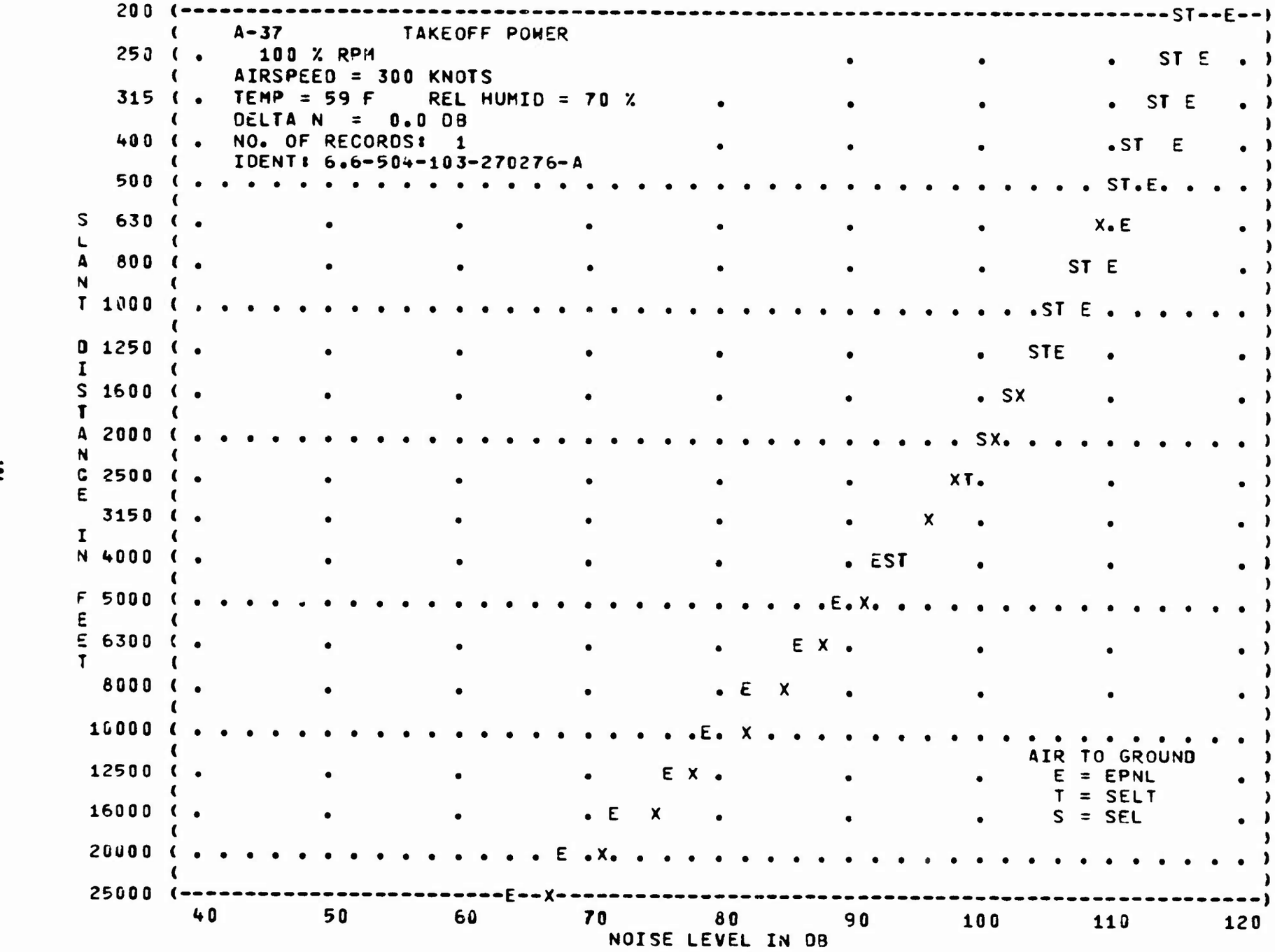

A-37 TAKEOFF POWER
100 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-504-103-270276-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: A-37

OPERATION: TAKEOFF POWER, 100 % RPM, AIRSPEED = 300 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 504
OPS CODE: 103
PROFILE VER: A
27 FEB 76
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	77	75	74	83	89	91	86	92	94	95	96	98	99	99	100	99	101	100	100	98	94	92	92	96
250	75	73	72	81	87	89	84	90	92	93	94	96	97	97	97	97	98	98	98	96	92	90	89	93
315	73	71	70	79	85	87	82	88	90	91	92	94	95	95	95	95	96	96	96	93	89	87	86	89
400	71	69	68	77	83	85	80	86	88	89	89	92	93	93	93	92	94	93	93	91	87	84	82	85
500	69	67	66	75	81	82	78	84	86	87	87	89	91	91	91	90	92	91	91	88	84	81	78	80
630	67	65	64	73	78	80	75	81	84	85	85	87	88	89	89	88	89	89	88	85	80	77	74	74
800	65	63	62	71	76	77	72	79	82	83	83	85	86	86	86	86	87	86	85	82	77	73	69	68
1000	63	61	60	68	73	74<	69	76	80	81	81	83	84	84	84	83	84	83	82	78	73	68	63	60
1250	61	59	57	65	70	71	66	73	77	79	79	81	82	82	82	80	81	80	79	74	69	63	56	51
1600	59	56	54	61	66	68	63	69	74	77	77	78	79	79	79	78	78	77	75	69	64	56	48	40
2000	56	52	50	57	62	64	59	65	70	74	74	76	77	77	76	75	75	73	70	64	58	49	38	26
2500	52	48	46	53	58	59	54	61	66	71	72	74	74	74	73	71	71	69	66	58	51	40	26	10
3150	48	44	41	48	53	55	49	56	62	67	68	71	71	71	70	68	67	64	60	51	43	30	12	
4000	44	39	36	43	48	49	44	50	56	62	65	68	68	68	66	64	63	59	53	43	33	17		
5000	39	34	31	38	43	44	39	45	51	56	60	63	65	64	62	59	57	52	46	33	22	2		
6300	34	30	26	33	38	39	34	40	45	51	56	59	61	60	58	54	51	45	36	21	8			
8000	32	27	24	31	36	37	31	37	42	48	53	55	57	56	53	48	44	36	25	6				
10000	29	25	22	29	33	34	29	35	39	45	49	52	52	50	47	41	36	26	12					
12500	27	23	20	26	31	32	26	32	36	41	45	47	47	45	40	33	26	13						
16000	25	21	17	24	28	29	23	29	32	37	41	42	41	38	32	23	14							
20000	23	18	15	21	26	26	20	25	28	33	36	36	34	29	22	11								
25000	20	16	12	19	23	23	16	21	24	28	30	29	26	20	10									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE *

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-37

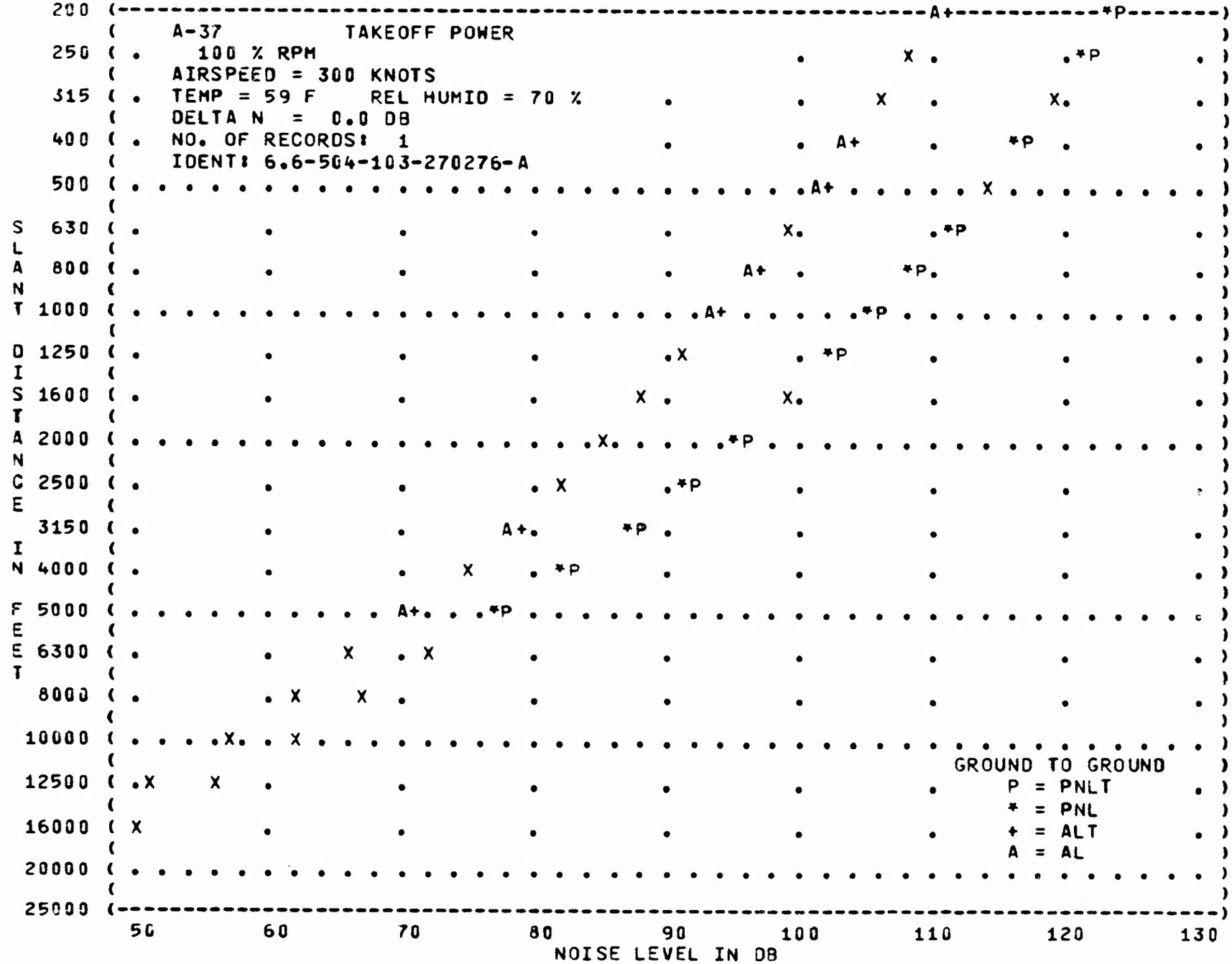
OPERATION:
TAKEOFF POWER
100 % RPM
AIRSPEED = 300 KNOTS

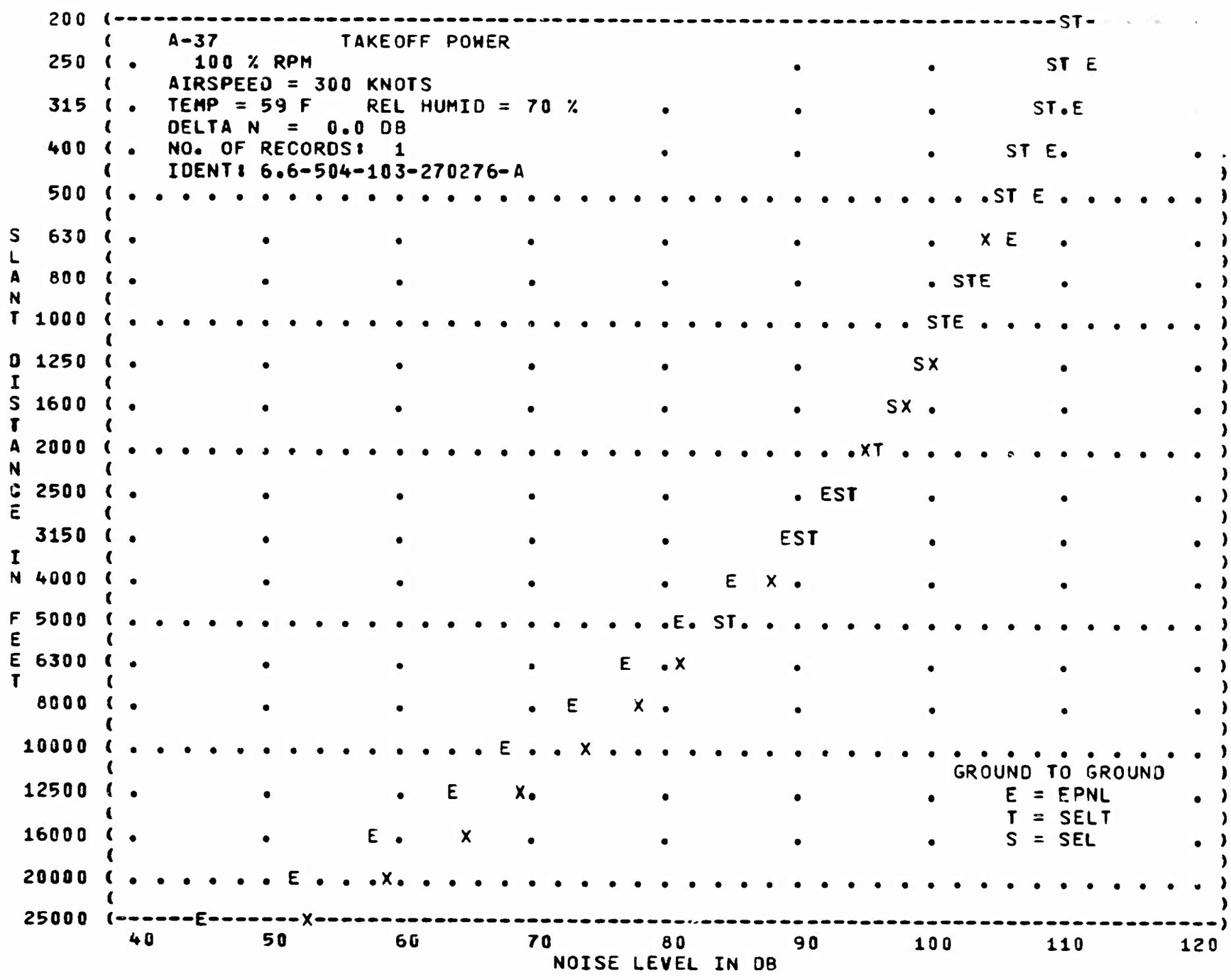
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

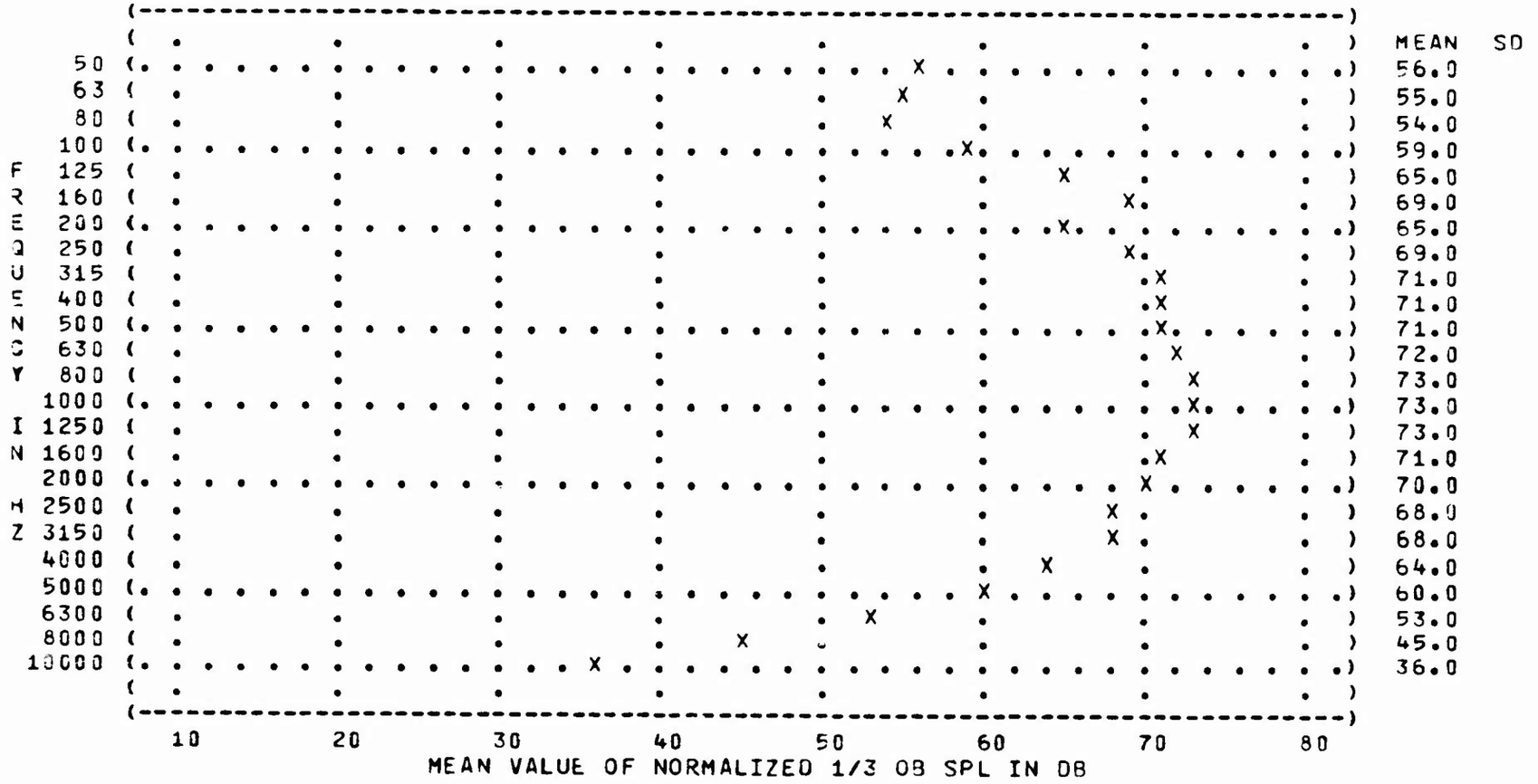
A/C CODE: 504
OPS CODE: 103
PROFILE VER: A
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PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	110.2	110.7	123.5	124.0	110.2	111.0	113.6
250	107.9	108.5	121.2	121.7	108.9	109.8	112.3
315	105.7	106.2	118.8	119.4	107.7	108.5	110.9
400	103.3	103.9	116.4	116.9	106.3	107.2	109.5
500	101.0	101.5	113.8	114.4	105.0	105.8	107.9
630	98.5	99.1	111.1	111.7	103.5	104.4	106.3
800	96.0	96.5	108.3	108.8	102.0	102.9	104.4
1000	93.4	93.9	105.3	105.8	100.4	101.2	102.4
1250	90.7	91.2	102.1	102.7	98.7	99.5	100.2
1600	87.8	88.3	98.7	99.3	96.8	97.7	97.9
2000	84.8	85.4	95.1	95.6	94.8	95.7	95.2
2500	81.7	82.2	91.3	91.8	92.7	93.5	92.4
3150	78.3	78.8	87.1	87.6	90.3	91.1	89.2
4000	74.6	75.0	82.4	82.8	87.6	88.3	85.3
5000	70.5	70.8	77.2	77.5	84.5	85.0	81.0
6300	66.0	66.2	71.9	72.1	81.0	81.3	76.5
8000	61.6	61.7	67.2	67.3	77.6	77.7	72.6
10000	56.7	56.7	62.1	62.1	73.7	73.7	68.3
12500	51.5	51.5	56.4	56.4	69.5	69.5	63.6
16000	45.7	45.7	50.1	50.1	64.7	64.7	58.4
20000	39.4	39.4	42.6	42.6	59.4	59.4	51.9
25000	32.4	32.4	34.5	34.5	53.4	53.4	44.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-37 TAKEOFF POWER
100 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-504-103-270276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


A-37 TAKEOFF POWER
100 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-504-103-270276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



A-37 CRUISE POWER 90 % RPM

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-504-104-270276

PNLT = 93.2 PNDB
PNL = 92.5 PNDB
ALT = 82.0 DBA
AL = 81.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-37

OPERATION:
CRUISE POWER
90 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 504
OPS CODE: 104
PROFILE VER: A
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PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	70	69	68	73	79	83	79	83	85	85	86	87	88	88	89	87	86	85	86	84	81	77	74	72
250	68	67	66	71	77	81	77	81	83	83	84	85	86	86	86	85	84	83	84	82	79	75	71	69
315	66	65	64	69	75	79	75	79	81	81	82	83	84	84	84	83	82	81	82	79	76	72	68	65
400	64	63	62	67	73	77	73	77	79	79	79	81	82	82	82	80	80	78	79	77	73	69	64	61
500	62	61	60	65	71	75	71	75	77	77	77	78	80	80	80	78	78	76	77	74	71	65	60	56
630	60	59	58	63	69	73	69	73	75	75	75	76	77	78	78	76	75	74	74	71	67	62	56	50
800	58	57	56	61	67	71	67	71	73	73	73	74	75	75	75	73	73	71	71	68	64	58	51	44
1000	56	55	54	59	65	69<	65	69	71	71	71	72	73	73	73	71	70	68	68	64	60	53	45	36
1250	54	53	52	57	63	67	63	67	69	69	69	70	71	71	71	68	67	65	65	60	56	48	38	27
1600	52	51	50	55	61	65	61	65	67	67	67	67	68	68	68	66	64	62	61	55	51	41	30	16
2000	50	49	48	53	59	63	59	63	65	64	64	65	66	66	65	63	61	58	57	50	45	34	20	3
2500	48	47	46	51	57	61	57	60	62	62	62	63	63	63	62	59	57	54	52	44	38	25	9	
3150	46	45	44	49	55	58	54	58	60	60	59	60	60	60	59	56	53	49	46	37	30	15		
4000	44	43	42	47	52	56	52	56	58	57	57	57	57	57	55	52	49	44	40	29	21	2		
5000	42	41	40	44	50	54	50	54	55	55	54	54	54	53	51	47	44	38	32	19	9			
6300	40	39	37	42	48	52	47	51	53	52	51	51	51	49	47	42	38	30	23	7				
8000	38	36	35	40	46	49	45	48	50	49	48	48	47	45	42	36	31	22	12					
10000	35	34	33	38	43	47	42	46	47	46	44	44	42	40	36	29	22	11						
12500	33	32	31	35	41	44	40	43	44	42	40	39	37	34	29	21	12							
16000	31	30	28	33	38	42	37	40	40	38	36	34	31	27	21	11	0							
20000	29	27	26	30	36	39	33	36	36	34	31	28	25	19	11									
25000	26	25	23	28	33	35	30	32	32	29	25	22	16	9										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
A-37

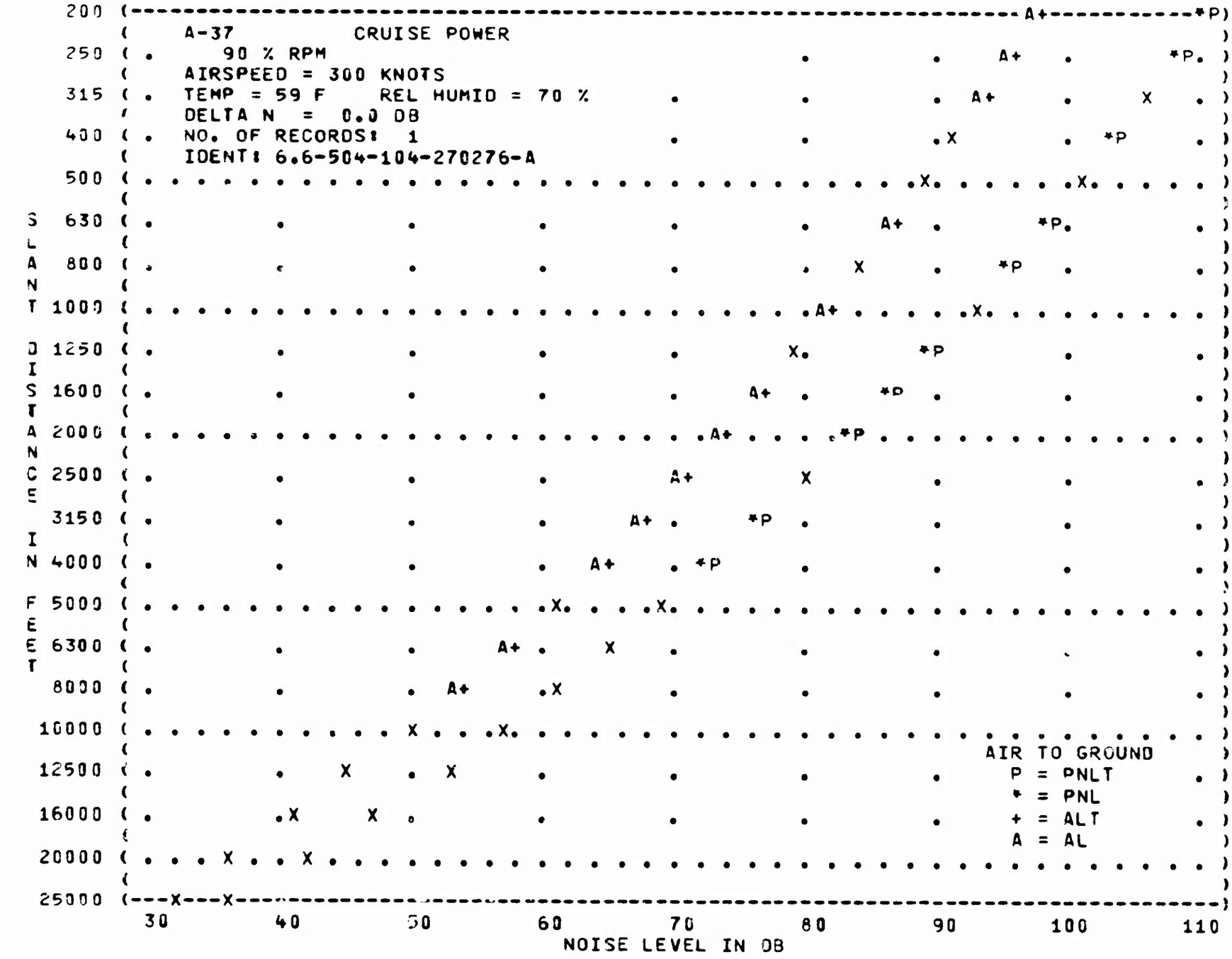
OPERATION:
CRUISE POWER
90 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 504
OPS CODE: 104
PROFILE VER: A
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PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	97.4	98.1	110.2	110.9	95.9	96.8	98.8
250	95.3	95.9	108.0	108.6	94.8	95.7	97.5
315	93.1	93.7	105.7	106.3	93.6	94.5	96.2
400	90.8	91.5	103.3	103.9	92.3	93.2	94.8
500	88.5	89.2	100.8	101.4	91.0	91.9	93.3
630	86.2	86.9	98.2	98.8	89.7	90.6	91.7
800	83.8	84.4	95.4	96.1	88.3	89.2	90.0
1000	81.3	82.0	92.5	93.2	86.8	87.7	88.1
1250	78.7	79.4	89.5	90.1	85.2	86.1	86.0
1600	76.1	76.7	86.3	87.0	83.6	84.5	83.9
2000	73.3	74.0	83.1	83.8	81.8	82.7	81.7
2500	70.4	71.1	79.7	80.4	79.9	80.8	79.2
3150	67.4	68.0	76.2	76.8	77.9	78.8	76.7
4000	64.2	64.7	72.3	72.9	75.7	76.4	73.7
5000	60.8	61.2	68.7	69.1	73.3	73.9	70.9
6300	57.3	57.5	65.0	65.3	70.8	71.1	68.0
8000	53.5	53.6	61.2	61.3	68.0	68.2	65.0
10000	49.5	49.5	57.0	57.0	65.0	65.0	61.7
12500	45.3	45.3	52.5	52.5	61.8	61.8	58.2
16000	40.9	40.9	47.3	47.3	58.4	58.4	53.9
20000	36.3	36.3	41.8	41.8	54.8	54.8	49.5
25000	31.5	31.5	35.8	35.8	51.0	51.0	44.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-37 CRUISE POWER
90 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-504-104-270276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

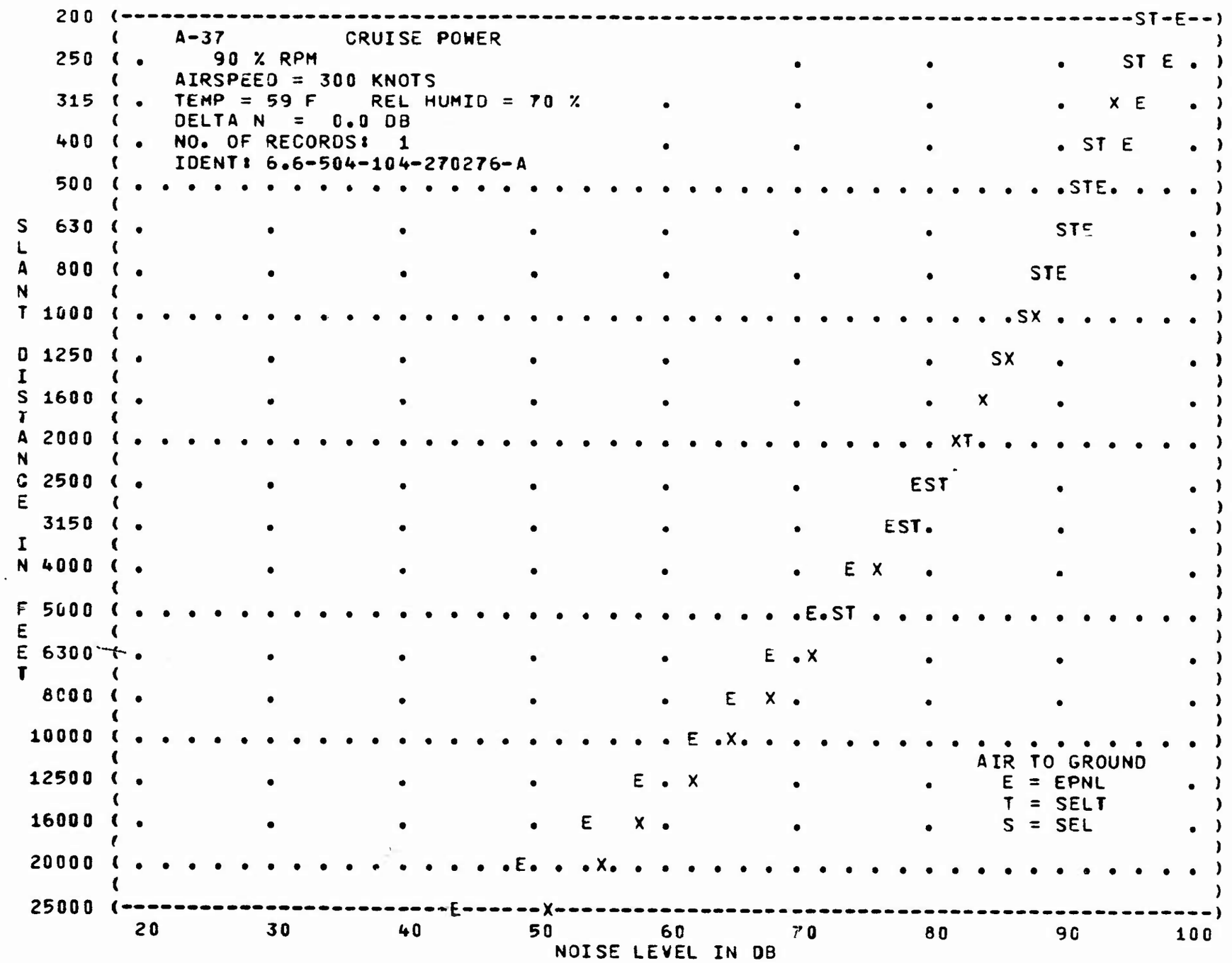

A-37 CRUISE POWER
90 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-504-104-270276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
A-37

OPERATION:
CRUISE POWER
90 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 504
OPS CODE: 104
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PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	65	64	63	68	74	78	74	78	80	80	81	82	83	83	84	82	81	80	81	79	76	72	69	67
250	63	62	61	66	72	76	72	76	78	78	79	80	81	81	81	80	79	78	79	77	74	70	66	64
315	61	60	59	64	70	74	70	74	76	76	77	78	79	79	79	78	77	76	77	74	71	67	63	60
400	59	58	57	62	68	72	68	72	74	74	74	76	77	77	77	75	75	73	74	72	68	64	59	56
500	57	56	55	60	66	69	66	70	72	72	72	73	75	75	75	73	73	71	72	69	66	60	55	51
630	55	54	53	58	63	67	63	67	70	70	70	71	72	73	73	71	70	69	69	66	62	57	51	45
800	53	52	51	56	61	64	60	65	68	68	68	69	70	70	70	68	68	66	66	63	59	53	46	39
1000	51	50	49	53	58	61<	57	62	66	66	66	67	68	68	68	66	65	63	63	59	55	48	40	31
1250	49	48	46	50	55	58	54	59	63	64	64	65	66	66	66	63	62	60	60	55	51	43	33	22
1600	47	45	43	46	51	55	51	55	60	62	62	62	63	63	63	61	59	57	56	50	46	36	25	11
2000	44	41	39	42	47	51	47	51	56	59	59	60	61	61	60	58	56	53	52	45	40	29	15	
2500	40	37	35	38	43	46	42	47	52	56	57	58	58	58	57	54	52	49	47	39	33	20	4	
3150	36	33	30	33	38	42	37	42	48	52	53	55	55	55	54	51	48	44	41	32	25	10		
4000	32	28	25	28	33	36	32	36	43	47	50	52	52	52	50	47	44	39	35	24	16			
5000	27	23	20	23	28	31	27	31	37	41	45	47	49	48	46	42	39	33	27	14	4			
6300	22	19	15	18	23	26	22	26	31	36	41	43	45	44	42	37	33	25	18	2				
8000	20	16	13	16	21	24	19	23	28	33	38	40	41	40	37	31	26	17	7					
10000	17	14	11	14	18	21	17	21	25	30	34	35	36	35	31	24	17	6						
12500	15	12	9	11	16	19	14	18	22	26	30	31	31	29	24	16	7							
16000	13	10	6	9	13	16	11	15	18	22	26	26	25	22	16	6								
20000	11	7	4	6	11	13	8	11	14	18	21	20	19	14	6									
25000	9	5	1	4	8	10	4	7	10	13	15	14	10	4										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
A-37

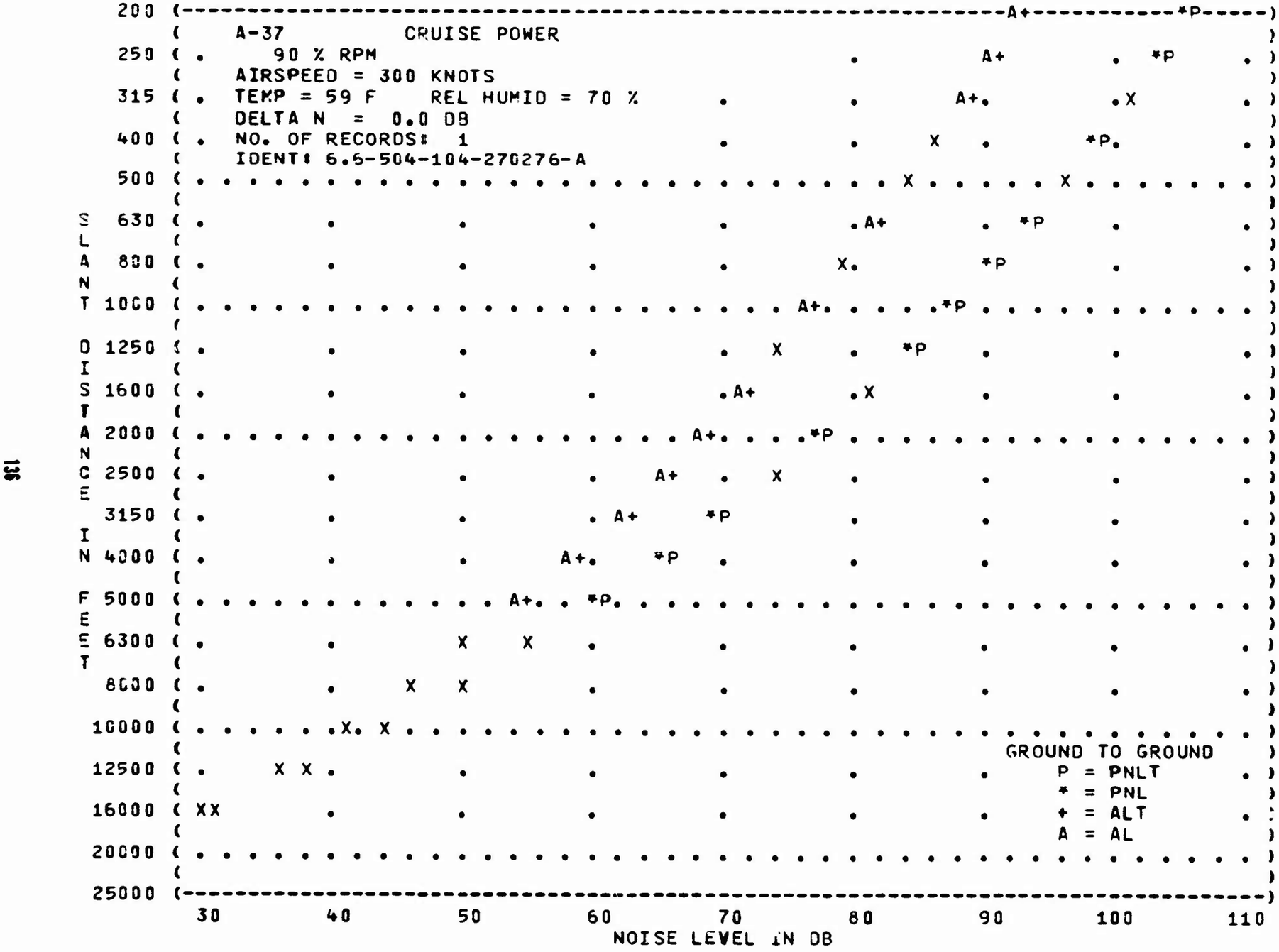
OPERATION:
CRUISE POWER
90 % RPM
AIRSPEED = 300 KNOTS

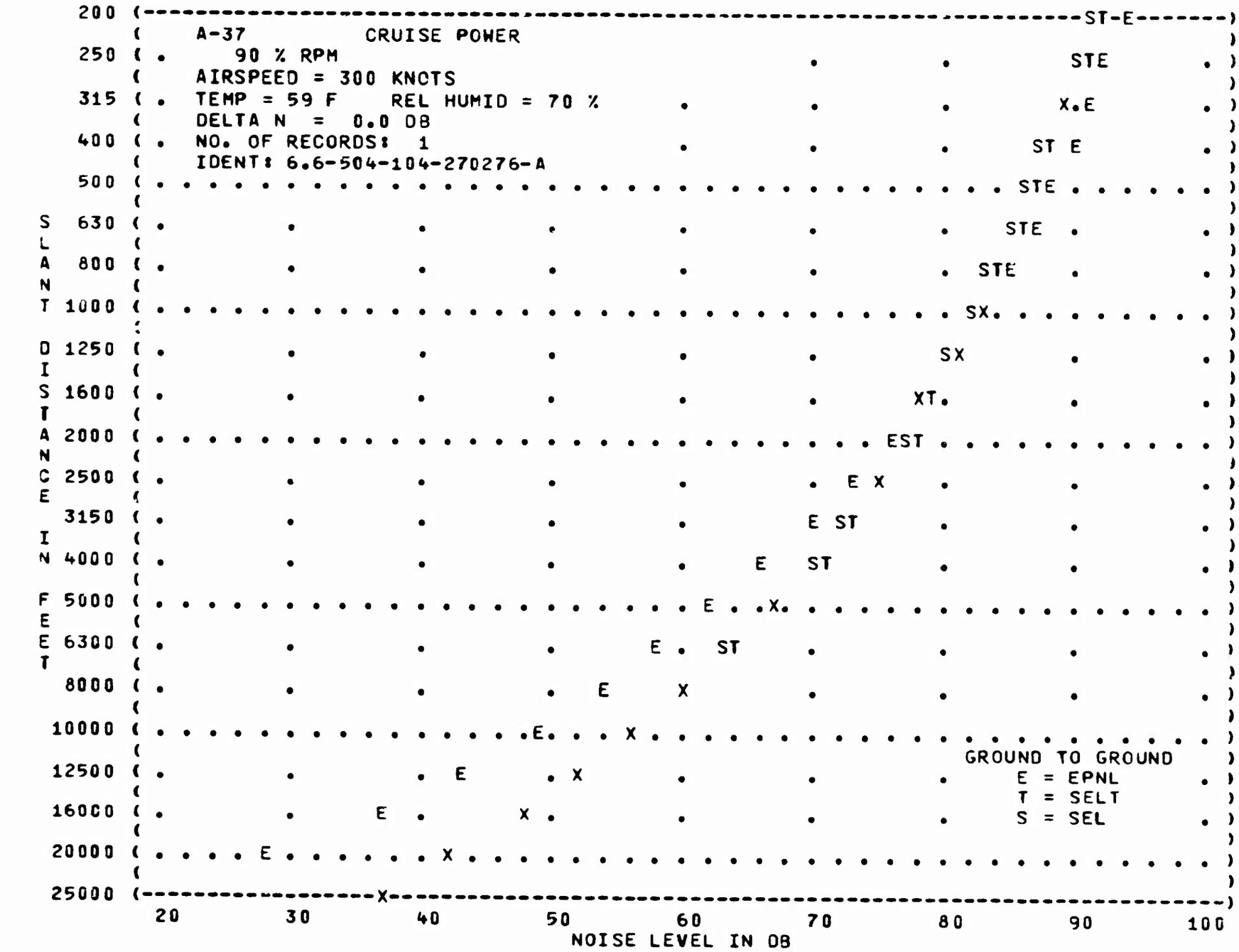
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

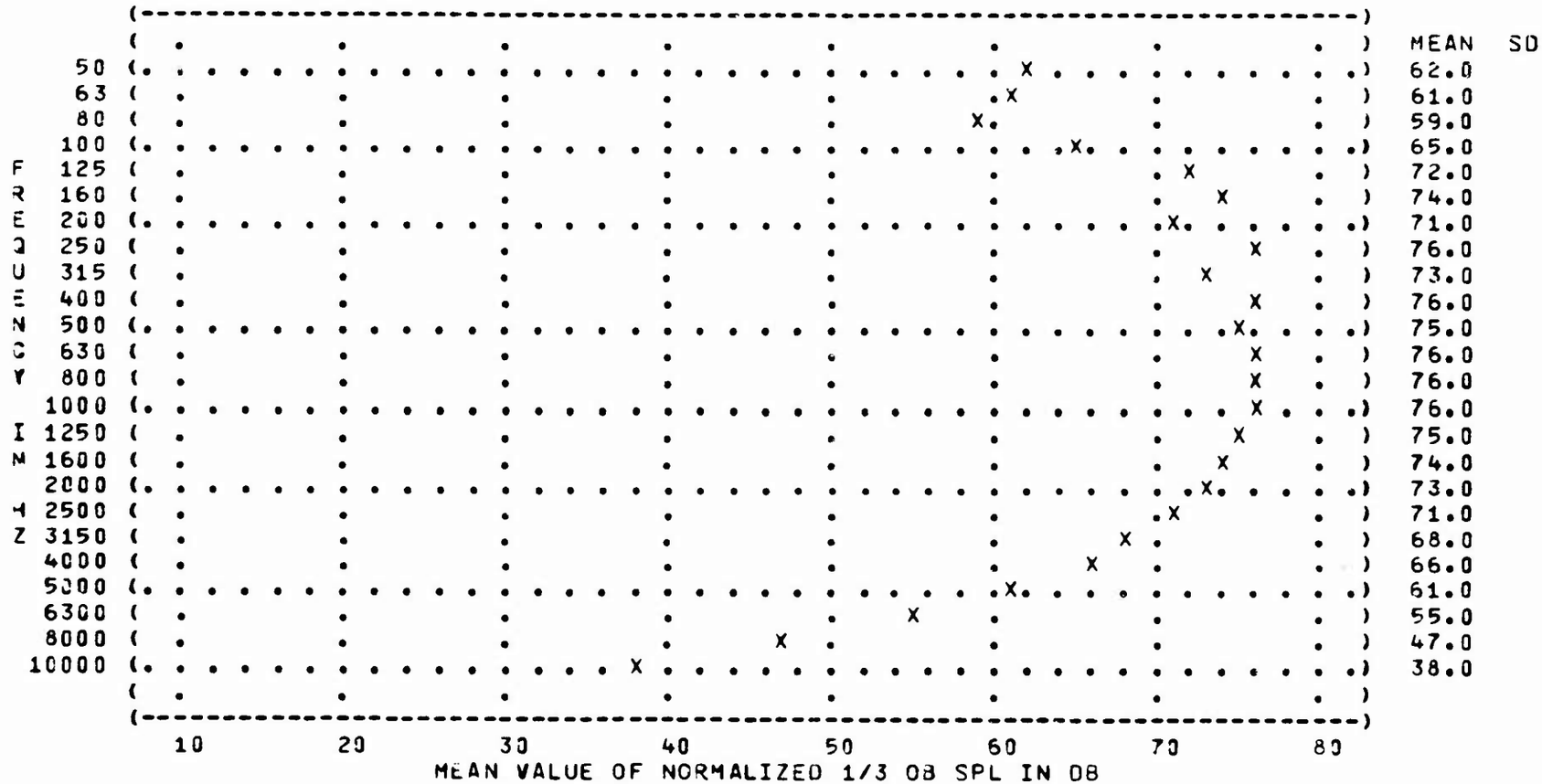
A/C CODE: 504
OPS CODE: 104
PROFILE VER: A
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	92.4	93.0	105.2	105.8	90.9	91.8	93.7
250	90.3	90.9	102.9	103.6	89.8	90.6	92.5
315	88.1	88.7	100.6	101.2	88.6	89.4	91.1
400	85.8	86.4	98.2	98.8	87.3	88.2	89.7
500	83.5	84.2	95.7	96.3	86.0	86.9	88.2
630	81.2	81.8	93.0	93.7	84.7	85.5	86.5
800	78.8	79.4	90.2	90.9	83.3	84.1	84.8
1000	76.3	76.9	87.3	87.9	81.8	82.6	82.8
1250	73.7	74.3	84.0	84.7	80.2	81.0	80.6
1600	71.0	71.6	80.7	81.4	78.5	79.3	78.2
2000	68.1	68.8	77.3	77.9	76.7	77.5	75.8
2500	65.1	65.8	73.5	74.1	74.6	75.5	73.0
3150	61.9	62.5	69.5	70.1	72.4	73.2	70.0
4000	58.3	58.8	65.0	65.5	69.8	70.5	66.4
5000	54.3	54.7	60.3	60.6	66.8	67.3	62.4
6300	49.9	50.2	55.1	55.3	63.5	63.8	58.1
8000	45.6	45.8	50.3	50.4	60.1	60.3	54.1
10000	40.9	40.9	44.3	44.3	56.4	56.4	49.0
12500	35.8	35.8	37.6	37.6	52.3	52.3	43.3
16000	30.1	30.1	30.6	30.6	47.6	47.6	37.2
20000	23.9	23.9	19.8	19.8	42.4	42.4	27.5
25000	17.2	17.2	9.1	9.1	36.7	36.7	17.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-37 CRUISE POWER
90 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-504-104-270276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


A-37 CRUISE POWER
90 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-504-104-270276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



A-37 APPROACH POWER 91 % RPM

AIRSPEED = 170 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-504-105-270276

PNLT = 96.1 PNDB
PNL = 95.4 PNDB
ALT = 84.9 DBA
AL = 84.2 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: A-37

OPERATION: APPROACH POWER, 91 % RPM, AIRSPEED = 170 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 504
OPS CODE: 105
PROFILE VER: A
27 FEB 76
PAGE H3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	78	75	73	79	86	88	85	90	87	90	90	91	91	91	90	90	89	88	86	86	82	79	76	74
250	74	73	71	77	84	86	83	88	85	88	88	89	89	89	88	88	87	86	84	84	80	77	73	70
315	72	71	69	75	82	84	81	86	83	86	86	87	87	87	86	86	85	84	82	81	77	74	70	67
400	70	69	67	73	80	82	79	84	81	84	83	85	85	85	84	83	83	81	79	79	74	71	66	62
500	68	67	65	71	78	80	77	82	79	82	81	82	83	83	82	81	81	79	77	76	72	67	62	58
630	66	65	63	69	76	78	75	80	77	80	79	80	80	81	80	79	78	76	74	73	68	64	58	52
800	64	63	61	67	74	76	73	78	75	78	77	78	78	78	77	76	76	74	71	70	65	60	53	46
1000	62	61	59	65	72	74	71	76<	73	76	75	76	76	76	75	74	73	71	68	66	61	55	47	38
1250	60	59	57	63	70	72	69	74	71	74	73	74	74	74	73	71	70	68	65	62	57	50	40	29
1600	58	57	55	61	68	70	67	72	69	72	71	71	71	71	70	69	67	65	61	58	52	44	32	18
2000	56	55	53	59	66	68	65	70	67	69	68	69	69	69	67	66	64	61	57	52	46	36	22	5
2500	54	53	51	57	64	66	63	67	64	67	66	67	66	66	64	62	60	57	52	46	39	28	11	
3150	52	51	49	55	62	64	60	65	62	65	63	64	63	63	61	59	56	52	46	39	31	17		
4000	50	49	47	53	59	61	58	63	60	62	61	61	60	60	57	55	52	47	40	31	22	5		
5000	48	47	45	50	57	59	56	61	57	60	58	58	57	56	54	50	47	41	32	21	11			
6300	46	45	42	48	55	57	53	58	55	57	55	55	54	52	49	45	41	34	23	9				
8000	44	42	40	46	53	54	51	55	52	54	52	52	50	48	44	39	34	25	12					
10000	41	40	38	44	50	52	48	53	49	51	48	48	45	43	38	32	25	15						
12500	39	38	36	41	48	49	46	50	46	47	45	43	40	37	31	24	16	2						
16000	37	36	33	39	45	47	43	47	42	43	40	38	35	30	23	14	4							
20000	35	33	31	36	43	44	39	43	38	39	35	32	28	22	14	3								
25000	32	31	28	34	40	40	36	39	34	34	29	26	20	12	2									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: A-37

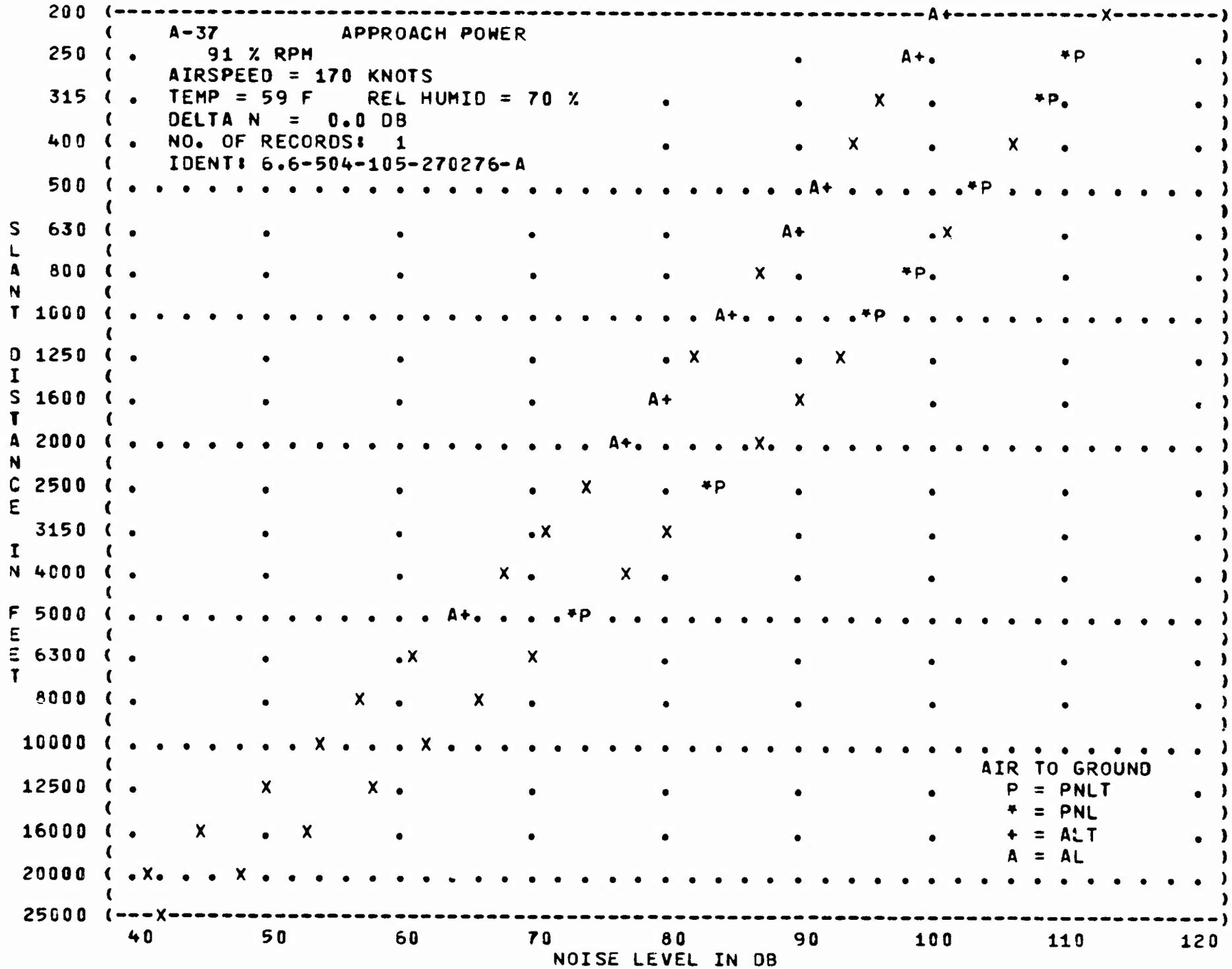
OPERATION:
APPROACH POWER
91 % RPM
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 504
OPS CODE: 105
PROFILE VER: A
27 FEB 76
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	100.1	100.8	112.5	113.2	100.4	101.4	103.6
250	98.0	98.6	110.3	111.0	99.2	100.2	102.4
315	95.8	96.5	108.0	108.7	98.0	99.0	101.1
400	93.6	94.3	105.7	106.4	96.8	97.8	99.8
500	91.3	92.0	103.3	103.9	95.6	96.6	98.3
630	89.0	89.7	100.8	101.4	94.3	95.3	96.9
800	86.7	87.3	98.2	98.8	92.9	93.9	95.2
1000	84.2	84.9	95.4	96.1	91.5	92.5	93.5
1250	81.7	82.4	92.6	93.3	90.0	91.0	91.7
1600	79.1	79.8	89.6	90.3	88.4	89.4	89.7
2000	76.4	77.1	86.5	87.2	86.7	87.7	87.6
2500	73.6	74.3	83.2	83.8	84.9	85.9	85.2
3150	70.7	71.4	79.8	80.4	82.9	83.9	82.8
4000	67.6	68.1	76.5	77.0	80.9	81.7	80.4
5000	64.4	64.8	73.1	73.5	78.6	79.2	77.8
6300	60.9	61.2	69.6	69.9	76.2	76.6	75.1
8000	57.4	57.5	65.9	66.0	73.6	73.8	72.2
10000	53.6	53.6	61.9	61.9	70.8	70.8	69.0
12500	49.6	49.6	57.6	57.6	67.8	67.8	65.7
16000	45.4	45.4	53.0	53.0	64.7	64.7	62.1
20000	41.0	41.0	47.8	47.8	61.3	61.3	57.9
25000	36.4	36.4	42.0	42.0	57.7	57.7	53.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-37 APPROACH POWER
91 % RPM
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-504-105-270276-A
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

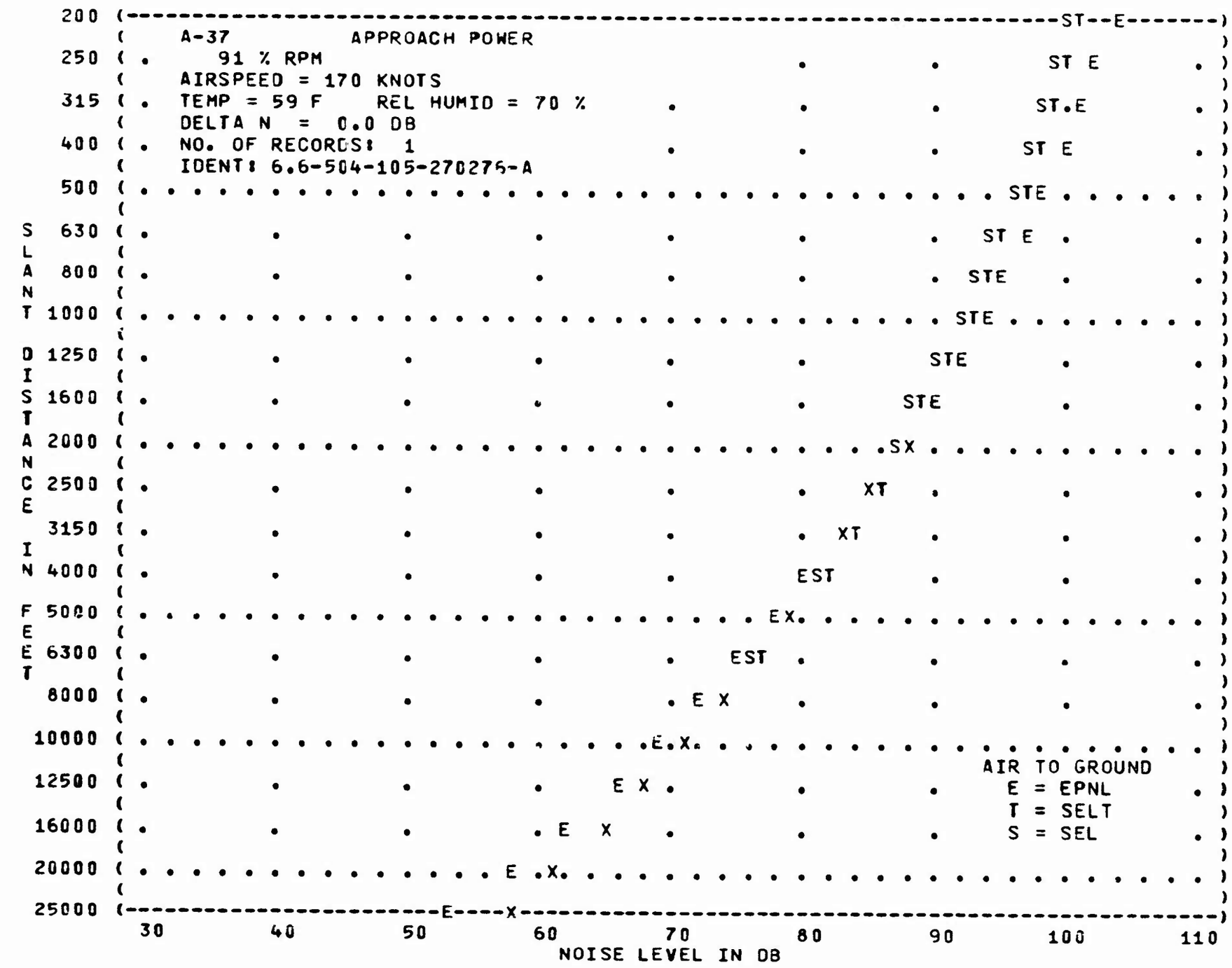

A-37 APPROACH POWER
91 % RPM
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-504-105-270276-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
A-37

OPERATION:
APPROACH POWER
91 % RPM
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 504
OPS CODE: 105
PROFILE VER: A
27 FEB 76
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																						
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	71	70	68	74	81	83	80	85	82	85	85	86	86	86	85	85	84	83	81	81	77	74	71	69
250	69	68	66	72	79	81	78	83	80	83	83	84	84	84	83	83	82	81	79	79	75	72	68	65
315	67	66	64	70	77	79	76	81	78	81	81	82	82	82	81	81	80	79	77	76	72	69	65	62
400	65	64	62	68	75	77	74	79	76	79	78	80	80	80	79	78	78	76	74	74	69	66	61	57
500	63	62	60	66	73	74	72	77	74	77	76	77	78	78	77	76	76	74	72	71	67	62	57	53
630	61	60	58	64	70	72	69	74	72	75	74	75	75	76	75	74	73	71	69	68	63	59	53	47
800	59	58	56	62	68	69	66	72	70	73	72	73	73	73	72	71	71	69	66	65	60	55	48	41
1000	57	56	54	59	65	66	63	69<	68	71	70	71	71	71	70	69	68	66	63	61	56	50	42	33
1250	55	54	51	56	62	63	60	66	65	69	68	69	69	69	68	66	65	63	60	57	52	45	35	24
1600	53	51	48	52	58	60	57	62	62	67	66	66	66	66	65	64	62	60	56	53	47	39	27	13
2000	50	47	44	48	54	56	53	58	58	64	63	64	64	64	62	61	59	56	52	47	41	31	17	
2500	46	43	40	44	50	51	48	54	54	61	61	62	61	61	59	57	55	52	47	41	34	23	6	
3150	42	39	35	39	45	47	43	49	50	57	57	59	58	58	56	54	51	47	41	34	26	12		
4000	38	34	30	34	40	41	38	43	45	52	54	56	55	55	52	50	47	42	35	26	17			
5000	33	29	25	29	35	36	33	38	39	46	49	51	52	51	49	45	42	36	27	16	6			
6300	28	25	20	24	30	31	28	33	33	41	45	47	48	47	44	40	36	29	18	4				
8000	26	22	18	22	28	29	25	30	30	38	42	44	44	43	39	34	29	20	7					
10000	23	20	16	20	25	26	23	28	27	35	38	40	39	38	33	27	20	10						
12500	21	18	14	17	23	24	20	25	24	31	35	35	34	32	26	19	11							
16000	19	16	11	15	20	21	17	22	20	27	30	30	29	26	18	9								
20000	17	13	9	12	18	18	14	18	16	23	25	24	22	17	9									
25000	14	11	6	10	15	15	10	14	12	18	19	18	14	7										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
A-37

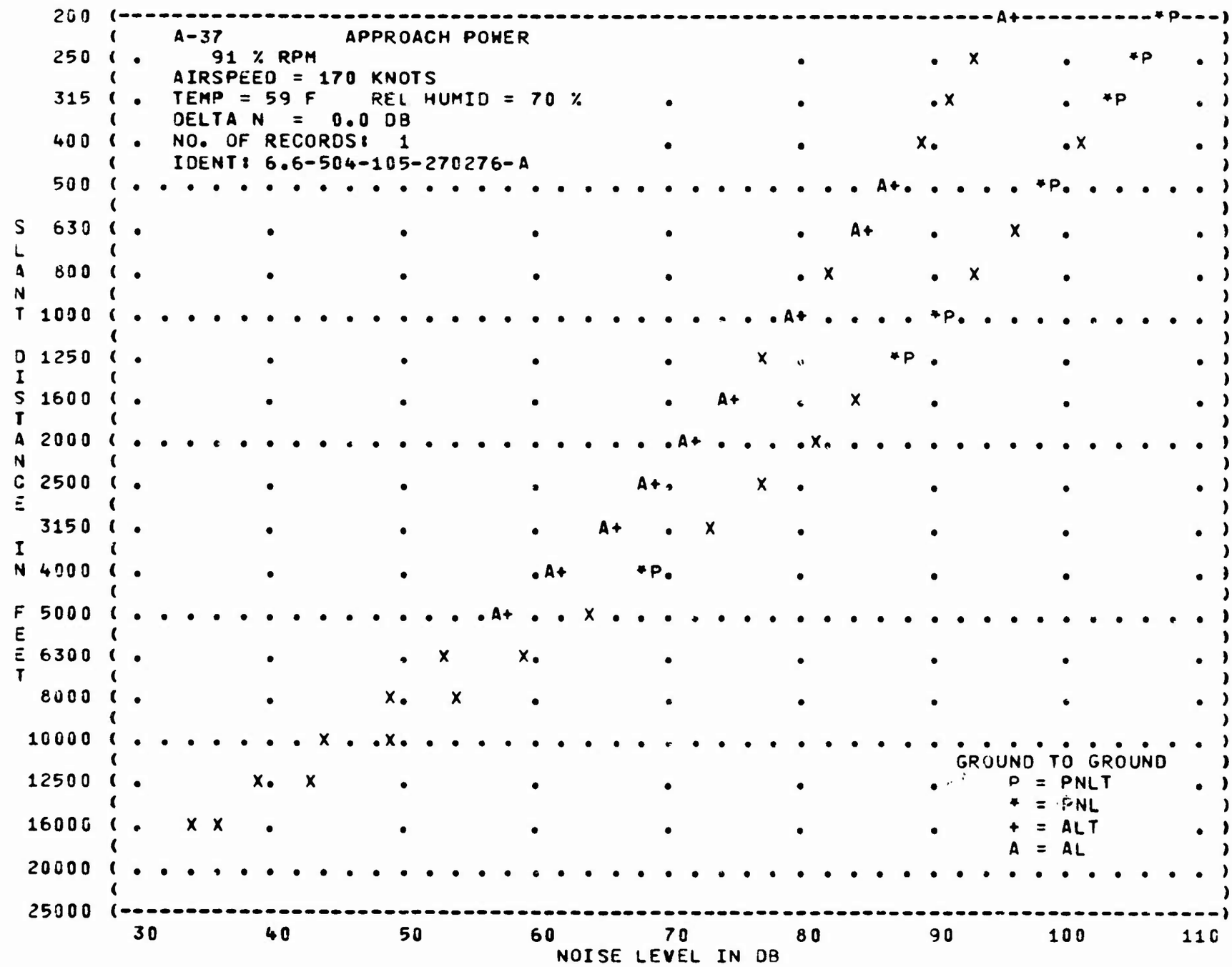
OPERATION:
APPROACH POWER
91 % RPM
AIRSPEED = 170 KNOTS

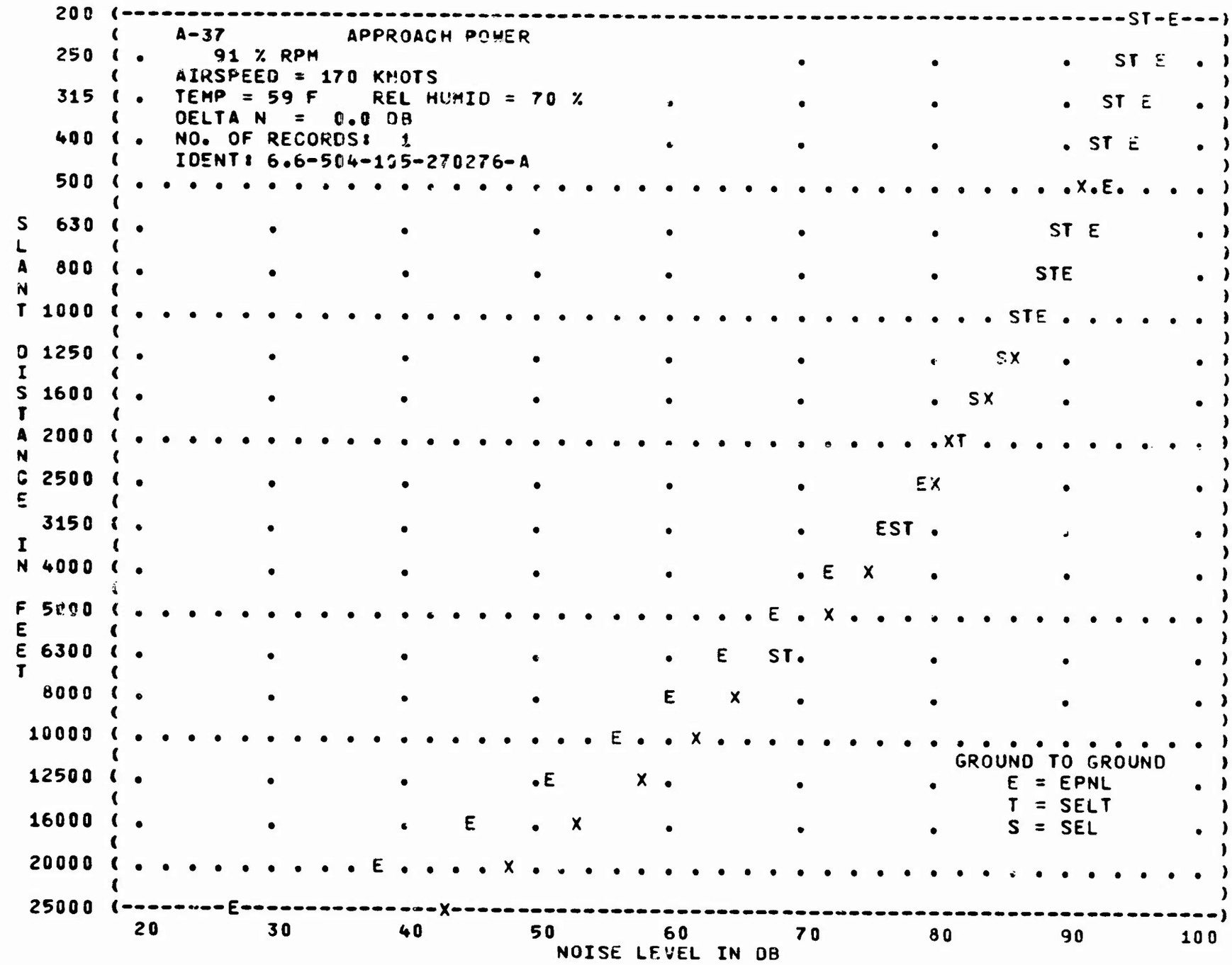
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 504
OPS CODE: 105
PROFILE VER: A
27 FEB 76
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	95.1	95.6	107.5	108.0	95.4	96.2	98.4
250	93.0	93.5	105.3	105.8	94.2	95.1	97.2
315	90.8	91.3	103.0	103.5	93.0	93.9	95.9
400	88.6	89.1	100.6	101.2	91.8	92.7	94.6
500	86.3	86.9	98.2	98.7	90.6	91.5	93.1
630	84.0	84.5	95.6	96.2	89.3	90.1	91.6
800	81.6	82.2	92.9	93.5	87.9	88.8	89.9
1000	79.2	79.7	90.1	90.6	86.4	87.3	88.0
1250	76.6	77.2	87.1	87.6	84.9	85.8	86.0
1600	74.0	74.5	83.9	84.5	83.2	84.1	83.9
2000	71.2	71.8	80.5	81.1	81.5	82.4	81.5
2500	68.2	68.8	76.8	77.3	79.5	80.4	78.7
3150	65.0	65.6	72.8	73.3	77.3	78.1	75.7
4000	61.5	61.9	68.3	68.7	74.7	75.4	72.1
5000	57.5	57.8	63.6	63.9	71.7	72.2	68.2
6300	53.1	53.3	58.6	58.8	68.4	68.7	64.0
8000	48.9	49.0	54.0	54.1	65.2	65.3	60.3
10000	44.3	44.3	48.6	48.6	61.6	61.6	55.7
12500	39.3	39.3	42.6	42.6	57.6	57.6	50.7
16000	33.9	33.9	35.8	35.8	53.1	53.1	44.8
20000	27.9	27.9	27.7	27.7	48.1	48.1	37.8
25000	21.3	21.3	15.8	15.8	42.6	42.6	26.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


A-37 APPROACH POWER
91 % RPM
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-504-105-270276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


A-37 APPROACH POWER
91 % RPM
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-504-105-270276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL

USAF A-37B AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

A-37B AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-004-014
AIRCRAFT CODE: 004
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING — PAGE

46% RPM, 355 C EGT, 495 LBS/HR 148-153
85% RPM, 490 C EGT, 1250 LBS/HR 154-159
MILITARY 100% RPM, 574 C EGT, 2250 LBS/HR 160-165

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

18 DEC 75

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-014
RUN 01
AIRCRAFT CODE 004
OPERATION CODE 02013
PROFILE VERSION A
18 DEC 75
PAGE C1

NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. J85-17
GROUND RUNUP

OPERATION:
IDLE, 46% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	62<	65<	64<	65<	65<	63<	63<	68<	64<	65<	64<	66	66	68	68	68	67	65	64<
63	62<	65<	64<	65<	65<	63	63	68<	64	65	64	68	71	72	71	71	69	67	64
80	62	65	64	65	65	68	67	66	67	68	68	71	73	75	75	72	69	67	63
100	63	65	65	65	67	69	70	71	71	71	71	74	76	77	75	73	68	63	61<
125	70	71	71	74	75	74	77	77	77	77	78	80	80	81	79	77	67	61<	60<
160	69	72	73	72	70	74	77	78	77	77	78	80	79	77	74	70	65<	59<	58<
200	66	69	70	68	69	69	69	70	70	70	71	74	74	72	68	59	62<	58<	57<
250	67	68	71	71	71	68	68	69	71	73	71	72	72	71	65	58<	60<	56<	55<
315	67	69	68	69	68	65	68	70	68	72	70	70	70	68	61	56<	58<	54<	54<
400	66	67	66	68	69	64	65	67	70	72	72	74	72	68	60	55<	56<	53<	52<
500	65	67	65	65	66	65	64	67	67	68	69	70	68	67	57	53<	54<	51<	51<
630	63	65	65	63	63	63	60	61	65	66	66	67	65	63	57	52<	52<	49<	49<
800	65	65	66	63	62	63	62	61	62	63	67	69	64	61	56	50<	50<	48<	48<
1000	67	67	67	65	65	65	62	62	63	63	66	68	63	63	57	49<	47<	46<	46<
1250	69	68	67	66	65	65	61	60	61	64	68	68	64	62	59	47	45<	44<	45<
1600	73	72	72	71	70	70	65	64	62	63	68	68	64	63	61	49	43	42	43
2000	71	67	66	67	66	67	63	64	61	62	68	68	63	62	59	48	43<	42<	42<
2500	69	67	68	66	65	67	64	63	58	62	68	65	63	61	58	46<	42<	41<	41<
3150	71	69	68	68	67	69	68	64	57	61	67	63	61	60	56	45	42<	40<	40<
4000	83	83	77	80	80	84	85	68	60	64	67	63	62	61	61	52	41	40	38
5000	72	71	71	71	71	72	71	65	61	64	68	63	59	57	55	44	37	37	36
6300	70	70	70	70	70	70	68	65	62	64	68	63	59	56	54	44	36	37	34
8000	79	80	78	82	76	79	77	76	68	65	69	65	63	65	63	53	42	43	39
10000	65	65	65	65	65	64	62	62	57	56	60	55	53	51	49	38	32	31	31
OVERALL	86	87	84	86	85	87	87	84	83	83	85	86	86	85	83	81	76	73	70

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. J85-17
GROUND RUNUP

OPERATION:
IDLE, 46% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-014
RUN 01
AIRCRAFT CODE 004
OPERATION CODE 02013
PROFILE VERSION A
18 DEC 75
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	103.8	104.0	100.5	102.3	101.9	104.2	104.4	97.3	92.3	93.6	96.4	95.0	93.3	92.7	89.9	84.2	77.7	74.3	73.0
250	101.4	101.6	98.1	99.9	99.6	101.8	102.0	94.7	89.8	91.3	94.0	92.8	91.1	90.5	87.6	81.8	75.3	71.9	70.7
315	99.0	99.1	95.6	97.4	97.1	99.3	99.5	91.9	87.2	88.9	91.6	90.5	88.8	88.2	85.2	79.4	73.0	69.5	68.4
400	96.4	96.5	93.1	94.8	94.5	96.7	96.9	89.0	84.6	86.3	89.1	88.1	86.4	85.8	82.8	77.0	70.5	67.0	66.1
500	93.6	93.8	90.3	92.0	91.8	94.0	94.2	85.9	81.9	83.7	86.5	85.7	83.8	83.2	80.2	74.4	68.0	64.5	63.6
630	90.7	90.8	87.4	89.1	88.8	91.0	91.2	82.5	79.2	80.9	83.8	83.1	81.1	80.4	77.4	71.5	65.2	61.9	61.0
800	87.5	87.7	84.3	85.9	85.7	87.9	88.0	79.4	76.5	78.0	81.0	80.3	78.5	77.5	74.3	68.5	62.5	59.2	58.2
1000	84.1	84.3	80.9	82.5	82.3	84.4	84.6	76.1	73.6	75.1	78.0	77.4	75.7	74.3	71.1	65.3	59.5	56.0	55.0
1250	80.4	80.5	77.2	78.8	78.6	80.6	80.8	72.4	70.6	72.2	74.7	74.5	72.8	70.9	67.6	61.6	56.2	52.5	51.6
1600	76.2	76.4	73.2	74.6	74.4	76.4	76.5	68.4	67.5	69.1	71.2	71.4	69.7	67.4	63.8	57.5	52.7	48.8	48.0
2000	71.7	71.8	68.7	70.0	69.9	71.8	71.8	64.1	64.2	65.7	67.5	68.2	66.4	63.9	59.6	52.8	48.7	44.8	43.9
2500	66.5	66.6	64.2	64.8	64.7	66.5	66.5	59.8	60.0	61.6	63.5	64.1	62.3	59.9	55.3	47.2	43.7	39.4	38.5
3150	60.9	60.7	59.9	59.5	58.9	60.5	60.2	55.1	55.2	56.9	58.8	59.6	57.6	55.3	50.1	40.4	37.5	32.2	31.7
4000	56.0	55.4	54.9	54.5	53.7	53.7	53.1	49.7	49.6	51.5	53.8	54.5	52.2	49.9	43.8	32.0	28.5	23.4	22.4
5000	50.3	49.5	49.3	48.5	47.6	47.4	44.3	43.8	43.7	45.2	47.9	48.5	45.8	43.9	36.5	19.6	19.4	11.7	11.4
6300	43.5	42.5	41.9	41.3	40.2	39.8	36.1	36.6	36.9	38.8	41.3	42.4	39.4	37.3	27.3	7.2	7.5	.0	.4
8000	35.5	34.9	34.2	33.4	31.7	31.6	27.6	30.4	30.8	32.7	35.8	36.7	33.3	30.3	13.6				
10000	24.7	25.6	24.1	23.1	24.1	22.0	17.9	21.4	23.9	26.2	29.1	30.3	26.0	23.4					
12500	8.3	12.9	12.5	8.7	12.3	9.1	7.3	11.3	15.4	17.2	20.0	21.6	17.5	12.6					
16000		.3	.9		.4			1.3	6.9	8.2	8.4	11.5	7.2	1.8					
20000												1.5							
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. J85-17
GROUND RUNUP

OPERATION:
IDLE, 46% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-014
RUN 01
AIRCRAFT CODE 004
OPERATION CODE 02013
PROFILE VERSION A
18 DEC 75
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES)																	
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	107.7	108.5	102.9	105.8	105.8	108.8	109.6	99.6	93.7	94.4	97.2	96.0	94.5	94.6	91.8	86.7	79.0	75.8	74.1
250	105.4	106.1	100.6	103.5	103.4	106.4	107.2	97.0	91.2	92.1	94.8	93.8	92.3	92.4	89.5	84.3	76.6	73.4	71.8
315	102.9	103.7	98.1	101.0	100.9	103.9	104.7	94.3	88.6	89.7	92.4	91.5	90.0	90.1	87.1	81.9	74.2	71.0	69.5
400	100.3	101.1	95.5	98.4	98.3	101.3	102.1	91.4	86.1	87.2	89.9	89.1	87.6	87.7	84.6	79.5	71.8	68.5	67.1
500	97.5	98.3	92.8	95.6	95.6	98.5	99.3	88.3	83.3	84.5	87.3	86.7	85.0	85.1	82.1	76.9	69.2	66.0	64.7
630	94.6	95.4	89.9	92.7	92.6	95.6	96.4	84.9	80.5	81.7	84.6	84.1	82.3	82.3	79.2	74.0	66.5	63.5	62.1
800	91.4	92.2	86.7	89.5	89.5	92.4	93.2	81.7	77.9	78.8	81.8	81.3	79.6	79.4	76.2	71.0	63.8	60.7	59.2
1000	88.0	88.8	83.4	86.1	86.	89.0	89.8	78.4	75.0	76.0	78.8	78.4	76.8	76.2	73.0	67.7	60.8	57.5	56.1
1250	84.3	85.1	79.7	82.3	82.4	85.2	85.9	74.8	72.0	73.0	75.5	75.5	73.9	72.8	69.5	64.1	57.5	54.0	52.7
1600	80.2	80.9	75.6	78.2	78.2	81.0	81.7	70.8	68.9	69.9	72.0	72.4	73.9	69.3	65.7	59.9	54.0	50.3	49.0
2000	75.6	76.3	71.2	73.6	73.7	76.3	77.0	66.5	65.5	66.5	68.4	69.2	67.5	65.8	61.5	55.2	50.0	46.3	45.0
2500	70.4	71.1	66.7	68.4	68.5	71.1	71.6	62.1	61.4	62.4	64.3	65.1	63.5	61.8	57.1	49.6	45.0	40.9	39.5
3150	64.8	65.3	62.3	63.0	62.7	65.0	65.4	57.5	56.6	57.7	59.6	60.6	58.8	57.2	51.9	42.9	38.7	33.7	32.8
4000	59.2	59.0	56.9	57.3	56.8	57.4	57.2	51.6	50.7	52.1	54.5	55.3	53.1	51.4	45.3	34.0	29.5	24.6	23.3
5000	52.6	52.2	50.8	50.6	49.9	50.1	47.4	45.2	44.5	45.7	48.4	49.1	46.5	45.1	37.6	21.1	20.2	12.6	12.0
6300	45.1	44.3	42.9	42.7	41.7	41.6	38.1	37.5	37.5	39.1	41.6	42.8	39.9	38.0	28.0	8.2	8.0	.6	.8
8000	36.2	35.8	34.7	34.1	32.5	32.5	28.7	30.9	31.0	32.8	36.0	36.9	33.5	30.7	14.0				
10000	24.7	25.3	24.1	23.1	24.1	22.0	17.9	21.4	23.9	26.2	29.1	30.3	26.0	23.4					
12500	8.3	12.9	12.5	8.7	12.3	9.1	7.3	11.3	15.4	17.2	20.0	21.6	17.5	12.6					
16000		.3	.5		.4			1.3	6.9	8.2	8.4	11.5	7.2	1.8					
20000												1.5							
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. J85-17
GROUND RUNUP

OPERATION:
IDLE, 46% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 3.2
TEST 74-004-014
RUN 01
AIRCRAFT CODE 004
OPERATION CODE 02013
PROFILE VERSION A
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PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	88.7	88.8	85.4	87.7	86.3	89.0	89.2	82.0	77.7	78.9	82.0	81.3	78.8	77.4	74.1	67.4	63.7	60.5	59.9
250	86.3	86.4	83.0	85.1	83.8	86.5	86.8	79.4	75.5	76.7	79.7	79.1	76.7	75.3	71.9	65.3	61.6	58.4	57.9
315	83.7	83.8	80.4	82.4	81.3	84.0	84.3	76.7	73.2	74.5	77.4	76.9	74.5	73.1	69.6	63.1	59.6	56.3	55.8
400	81.1	81.1	77.8	79.6	78.6	81.3	81.6	73.9	70.8	72.2	75.0	74.7	72.3	70.8	67.3	61.0	57.5	54.2	53.6
500	78.3	78.3	75.0	76.7	75.9	78.5	78.8	70.9	68.4	69.8	72.6	72.4	70.0	68.5	64.9	58.7	55.3	52.0	51.4
630	75.4	75.3	72.1	73.6	72.9	75.5	75.8	67.9	66.0	67.4	70.1	70.1	67.7	66.1	62.4	56.3	53.0	49.7	49.2
800	72.3	72.1	69.2	70.4	69.9	72.3	72.6	64.8	63.5	64.9	67.5	67.7	65.2	63.6	59.8	53.7	50.6	47.3	46.8
1000	69.1	68.8	66.1	67.0	66.6	68.8	69.1	61.8	60.9	62.4	64.9	65.2	62.7	61.0	57.0	51.0	48.1	44.9	44.4
1250	65.6	65.3	63.0	63.6	63.2	65.2	65.3	58.7	58.3	59.7	62.1	62.6	60.1	58.3	54.2	48.1	45.4	42.3	41.8
1600	62.0	61.6	59.7	60.0	59.6	61.2	61.1	55.6	55.6	57.0	59.3	59.9	57.4	55.5	51.1	45.0	42.6	39.5	39.1
2000	58.3	57.8	56.4	56.3	56.0	57.1	56.6	52.5	52.8	54.2	56.4	57.1	54.6	52.6	47.9	41.7	39.7	36.7	36.3
2500	54.4	53.8	52.9	52.5	52.1	52.8	51.7	49.1	49.6	50.9	53.2	54.0	51.3	49.4	44.5	38.0	36.3	33.4	33.2
3150	50.4	49.8	49.3	48.6	48.2	48.4	46.7	45.4	46.1	47.4	49.7	50.5	47.7	45.8	40.8	34.1	32.7	29.9	29.8
4000	46.2	45.7	45.4	44.5	44.9	44.9	41.8	41.4	42.3	43.5	45.8	46.8	43.7	41.9	36.7	29.8	28.7	26.1	26.0
5000	41.8	41.4	41.2	40.2	39.7	39.6	37.0	37.1	38.0	39.1	41.6	42.6	39.4	37.6	32.5	25.5	24.4	21.8	21.8
6300	37.1	36.8	36.6	35.5	35.0	34.9	32.3	32.5	33.6	34.6	37.1	38.2	34.9	33.1	27.9	21.0	19.9	17.4	17.4
8000	32.2	32.2	32.0	30.9	30.6	30.3	28.0	28.5	29.8	30.8	33.0	34.1	31.1	29.2	23.7	17.5	16.4	13.8	13.7
10000	27.0	27.3	27.1	26.0	25.9	25.5	23.6	24.4	25.7	26.8	28.5	29.8	27.0	25.2	19.4	13.9	12.6	9.9	9.7
12500	21.5	22.2	22.0	20.9	21.1	20.4	19.0	20.0	21.4	22.4	23.9	25.1	22.7	20.9	15.1	10.3	8.7	5.7	5.4
16000	15.8	16.8	16.5	15.6	15.0	15.1	14.2	15.5	16.7	17.8	18.9	20.2	18.2	16.4	10.9	6.8	4.5	1.4	.8
20000	9.8	11.1	10.8	13.2	10.7	9.6	9.4	10.7	11.8	12.9	13.7	15.0	13.5	11.8	6.8	3.3	.3		
25000	3.6	5.2	4.9	4.6	5.2	4.0	4.4	5.8	6.6	7.7	8.3	9.7	8.6	7.2	3.0				

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. J85-17
GROUND RUNUP

OPERATION:
IDLE, 46% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-014
RUN 01
AIRCRAFT CODE 004
OPERATION CODE 02013
PROFILE VERSION A
18 DEC 75
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	92.6	93.4	87.9	91.2	90.1	93.5	94.4	84.4	79.1	79.7	82.3	82.3	80.0	79.3	76.0	69.8	65.0	62.0	61.0
250	90.2	90.9	85.4	88.7	87.6	91.1	92.0	81.8	76.8	77.5	80.5	80.1	77.8	77.2	73.8	67.7	62.9	59.9	58.9
315	87.7	88.3	82.9	86.0	85.1	88.5	89.4	79.1	74.5	75.3	78.2	77.9	75.7	75.0	71.5	65.6	60.8	57.8	56.8
400	85.0	85.6	80.2	83.2	82.4	85.8	86.8	76.2	72.2	73.0	75.8	75.7	73.5	72.7	69.2	63.4	58.7	55.7	54.7
500	82.2	82.8	77.5	80.2	79.7	83.0	84.0	73.3	69.8	70.7	73.4	73.4	71.2	70.4	66.8	61.2	56.5	53.5	52.5
630	79.3	79.8	74.6	77.2	76.8	80.0	81.0	70.2	67.3	68.2	70.9	71.1	68.8	68.0	64.2	58.7	54.2	51.2	50.2
800	76.2	76.7	71.6	73.9	73.7	76.8	77.8	67.2	64.8	65.8	68.3	68.7	66.4	65.5	61.6	56.1	51.9	48.8	47.9
1000	73.0	73.4	68.6	70.6	70.4	73.4	74.3	64.1	62.3	63.2	65.7	66.2	63.9	62.9	58.9	53.4	49.4	46.4	45.5
1250	69.5	69.8	65.4	67.1	67.0	69.7	70.5	61.1	59.7	60.6	63.0	63.6	61.3	60.2	56.0	50.5	46.7	43.8	42.9
1600	65.9	66.1	62.2	63.6	63.5	65.8	66.3	58.0	57.0	57.8	60.1	60.9	58.5	57.4	53.0	47.4	43.9	41.0	40.2
2000	62.2	62.3	58.9	59.9	59.8	61.6	61.8	54.9	54.2	55.0	57.2	58.1	55.7	54.5	49.8	44.1	40.9	38.2	37.4
2500	58.3	58.4	55.4	56.1	55.9	57.3	56.9	51.5	51.0	51.7	54.0	55.0	52.4	51.3	46.3	40.5	37.6	35.0	34.3
3150	54.3	54.4	51.8	52.2	52.0	52.9	51.9	47.8	47.5	48.2	50.5	51.5	48.8	47.7	42.6	36.5	34.0	31.4	30.8
4000	49.4	49.4	47.4	47.4	47.1	47.7	45.9	43.3	43.4	44.1	46.5	47.6	44.7	43.4	38.2	31.8	29.7	27.3	26.8
5000	44.2	44.1	42.6	42.3	41.9	42.3	40.1	38.5	38.8	39.6	42.1	43.2	40.1	38.7	33.6	26.9	25.1	22.7	22.4
6300	38.7	38.6	37.5	36.9	36.5	36.7	34.3	33.5	34.1	35.0	37.4	38.6	35.3	33.9	28.6	22.0	20.4	18.0	17.8
8000	33.0	33.1	32.5	31.6	31.3	31.2	29.1	29.0	30.0	31.0	33.1	34.3	31.3	29.6	24.1	18.0	16.6	14.1	13.9
10000	27.0	27.3	27.1	26.0	25.9	25.5	23.6	24.4	25.7	26.8	28.5	29.8	27.0	25.2	19.4	13.9	12.6	9.9	9.7
12500	21.5	22.2	22.0	20.9	21.1	20.4	19.0	20.0	21.4	22.4	23.9	25.1	22.7	20.9	15.1	10.3	8.7	5.7	5.4
16000	15.8	16.8	16.5	15.6	16.0	15.1	14.2	15.5	16.7	17.8	18.9	20.2	18.2	16.4	10.9	6.8	4.5	1.4	.8
20000	9.8	11.1	10.8	10.2	10.7	9.6	9.4	10.7	11.8	12.9	13.7	15.0	13.5	11.8	6.8	3.3	.3		
25000	3.6	5.2	4.9	4.6	5.2	4.0	4.4	5.8	6.6	7.7	8.3	9.7	8.6	7.2	3.0				

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. J85-17
GROUND RUNUP

OPERATION:
IDLE, 46% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-014
RUN 01
AIRCRAFT CODE 004
OPERATION CODE 02013
PROFILE VERSION A
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P=PNLT A=AL T=ALT

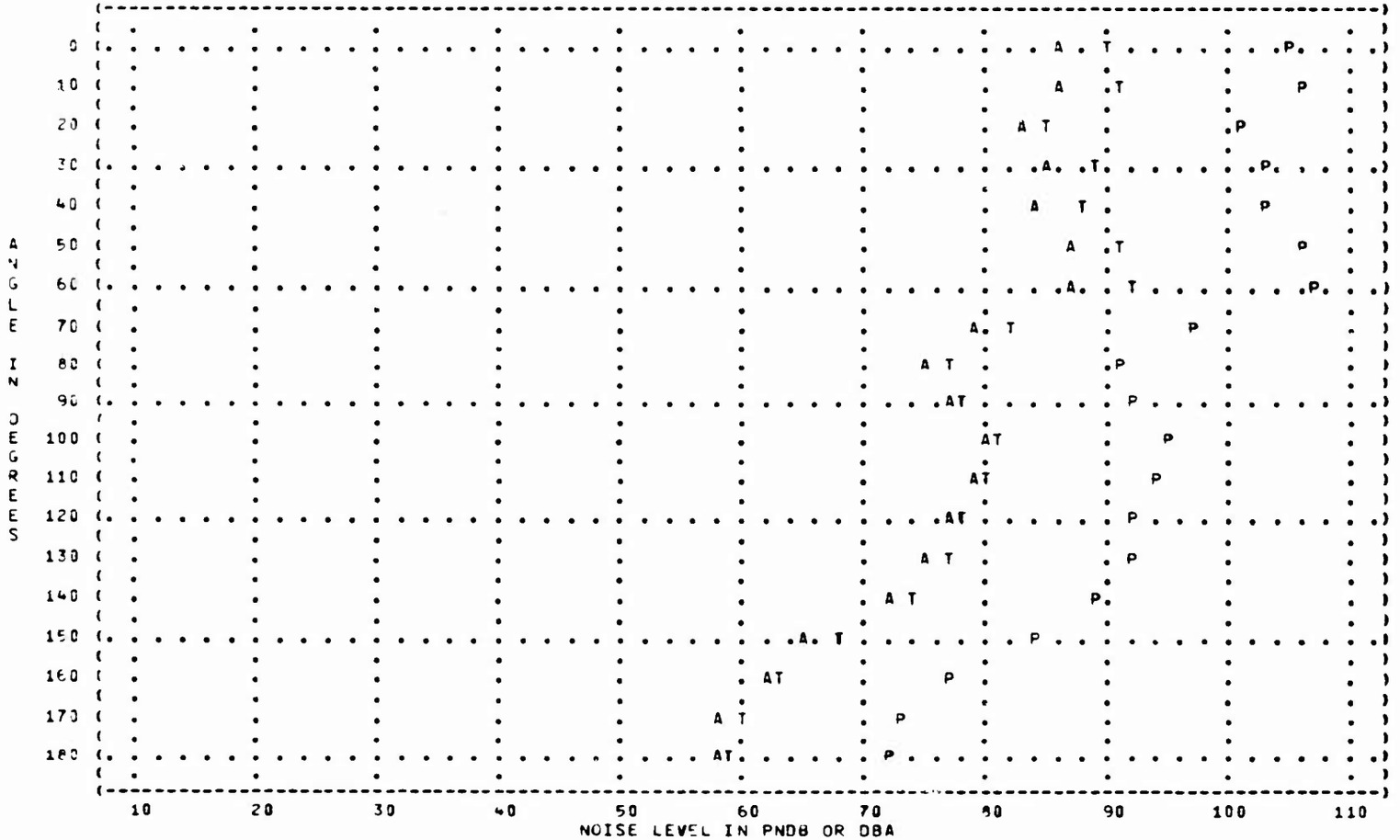


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-040
RUN 01

NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. J85-17
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

AIRCRAFT CODE J04
OPERATION CODE 11018
PROFILE VERSION A
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PAGE 01

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	67	67	68	69	70	71	71	72	73	76	77	80	82	82	83	81	79	69	59
63	69	69	68	70	72	73	74	74	74	77	81	83	85	87	87	84	79	69	59
80	73	70	71	72	74	74	76	77	77	79	82	86	89	90	89	84	77	67	57
100	71<	71	72	73	74	75	77	78	79	80	83	86	91	92	90	82	73	63	53
125	73	74	76	76	78	79	80	80	83	83	86	89	92	95	91	82	75	65	55
160	74	75	76	77	80	81	82	83	83	83	87	91	95	97	91	80	73	63	53
200	75	76	76	81	80	81	81	81	83	84	87	92	98	98	90	76	73	63	53
250	79	78	81	82	84	84	83	84	85	87	89	93	98	96	88	78	78	68	58
315	79	79	81	83	84	81	82	85	86	88	91	93	97	98	87	76	76	66	56
400	79	80	81	82	81	81	83	85	87	89	90	92	97	96	85	76	72	62	52
500	80	81	80	81	82	81	82	83	84	85	88	89	92	93	82	68	66	56	46
630	80	79	79	80	80	80	81	81	83	82	85	87	88	90	78	83	62	52	42
800	77	79	80	80	80	80	81	81	82	82	85	88	87	90	77	60	59	49	39
1000	76	79	79	79	79	79	79	80	81	82	86	88	86	90	76	61	58	48	38
1250	74	77	78	76	78	78	77	78	81	84	85	89	85	89	76	61	59	49	39
1600	74	77	76	77	77	75	77	76	81	84	85	88	84	85	75	59	58	48	38
2000	74	77	76	77	76	75	75	76	81	82	85	86	82	92	72	60	57	47	37
2500	74	78	75	77	75	76	76	78	80	82	84	84	81	81	71	61	56	46	36
3150	72	75	75	74	75	75	76	77	79	79	82	82	79	79	70	56	54	44	34
4000	70	74	73	74	74	74	74	76	78	80	82	83	79	79	68	55	51	41	31
5000	69	73	72	72	73	73	73	74	77	78	81	81	78	77	67	52	50	40	30
6300	67	72	71	71	71	71	72	72	73	75	76	77	73	73	64	49	46	36	26
8000	68	74	72	72	73	72	72	72	71	73	73	74	69	69	63	45	43	33	23
10000	58	63	62	62	63	62	62	65	66	68	69	69	65	64	55	42	41	31	21
OVERALL	89	90	91	92	92	92	93	94	95	97	99	102	105	106	99	91	86	76	66

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. J85-17
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-040
RUN 01
AIRCRAFT CODE 004
OPERATION CODE 01018
PROFILE VERSION A
12 FEB 76
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	101.2	100.0	100.*	100.2	100.3	100.1	104.7	106.0	107.5	109.1	111.5	113.0	114.1	114.6	105.*	94.0	91.6	81.0	70.2
250	99.6	101.8	101.1	101.9	102.1	101.9	102.*	103.8	105.5	106.3	109.3	110.3	112.0	112.4	103.3	91.8	89.*	78.7	67.9
315	96.7	99.5	98.3	99.6	99.8	99.5	100.1	101.5	103.3	104.6	107.0	108.6	109.9	110.3	101.1	89.7	87.2	76.5	65.6
400	94.3	97.1	96.4	97.3	97.4	97.2	97.7	99.1	100.9	102.3	104.7	106.3	107.7	108.1	98.9	87.3	84.9	74.2	63.1
500	91.8	94.8	93.9	94.0	94.9	94.7	95.2	96.6	98.5	99.8	102.2	103.9	105.4	105.6	96.5	84.8	82.5	71.7	60.5
630	89.3	92.0	91.2	92.2	92.3	92.0	92.5	94.0	95.9	97.3	99.7	101.*	103.0	103.5	94.0	82.2	79.9	69.1	57.9
800	86.6	89.3	88.*	89.5	89.8	89.5	89.8	91.3	93.2	94.6	97.0	98.8	100.6	101.0	91.5	79.4	77.3	66.6	55.1
1000	83.7	86.*	85.5	86.6	86.8	86.*	86.3	88.4	90.3	91.7	94.1	96.1	98.1	98.*	88.8	76.7	74.6	63.8	52.1
1250	80.6	83.3	82.*	83.5	83.6	83.3	84.*	85.5	87.3	88.8	91.1	93.2	95.4	95.6	85.8	73.5	71.6	60.5	48.6
1600	77.4	79.9	79.2	80.4	80.3	80.1	81.0	82.6	84.*	85.9	88.0	90.*	92.5	92.7	82.8	70.1	68.2	56.9	43.9
2000	74.3	76.3	76.0	77.2	77.1	76.9	77.9	79.5	81.2	82.8	85.*	86.9	89.5	89.7	79.6	66.4	64.7	53.3	39.7
2500	70.8	72.8	72.3	73.4	73.5	73.3	74.0	75.8	77.*	78.9	81.6	83.*	85.6	85.8	75.6	62.1	60.5	48.6	33.7
3150	66.9	68.5	68.3	69.2	69.5	69.2	69.9	71.2	73.1	74.5	76.7	78.9	81.3	81.6	71.2	57.1	55.7	43.3	26.9
4000	62.7	64.1	63.8	64.8	65.*	64.7	65.*	66.5	68.3	69.7	72.1	74.3	76.5	76.8	66.2	51.6	50.1	36.3	17.2
5000	57.8	59.1	59.1	59.9	60.1	59.8	60.*	61.6	63.4	64.7	67.2	69.*	71.2	72.0	60.9	45.7	43.3	27.5	7.5
6300	52.6	54.0	54.0	54.7	54.9	54.6	55.*	56.4	58.1	59.3	62.0	64.2	65.7	67.0	55.5	39.0	35.8	15.8	
8000	47.9	49.3	49.2	50.2	50.5	50.1	50.9	52.1	53.9	54.9	57.8	59.7	62.0	63.2	51.4	32.9	30.4	7.5	
10000	42.5	44.2	43.9	45.2	45.5	45.0	45.8	47.3	49.1	50.0	53.2	55.1	57.9	59.0	46.7	25.4	24.3		
12500	36.4	38.2	38.3	39.4	39.7	39.3	40.1	41.3	43.4	44.4	48.1	50.1	53.5	54.4	41.3	17.1	16.4		
16000	30.3	31.7	31.5	32.6	33.4	32.9	33.0	35.1	37.1	38.1	41.9	44.1	48.5	49.2	35.3	8.8	8.5		
20000	24.5	23.2	22.5	24.8	25.3	24.1	20.4	27.0	29.0	31.3	34.8	37.3	42.9	43.0	27.9	.4	.6		
25000	7.5	9.8	8.7	11.9	11.2	10.5	13.7	15.3	19.4	22.7	26.0	29.8	36.3	36.1	16.3				

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT: A-37B AIRCRAFT
ENG: J85-17
GROUND RUNUP

OPERATION: ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY: TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION: OMEGA 8.2
TEST 74-004-040
RUN 01
AIRCRAFT CODE 004
OPERATION CODE 01018
PROFILE VERSION A
12 FEB 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	102.1	102.1	104.3	105.1	103.3	105.0	103.5	106.6	107.8	109.1	111.5	113.0	114.1	114.6	105.4	94.0	92.2	81.5	70.8
250	99.0	102.9	102.3	102.9	103.1	102.8	103.3	104.4	105.5	106.9	109.3	110.8	112.0	112.4	103.3	91.8	90.0	79.3	68.5
315	97.6	100.5	99.7	103.6	100.8	100.5	101.3	102.1	103.3	104.6	107.0	108.6	109.9	110.3	101.1	89.7	87.7	77.0	66.1
400	95.2	98.2	97.3	98.2	98.4	98.1	98.6	99.7	100.9	102.3	104.7	106.3	107.7	108.1	98.9	87.3	85.5	74.7	63.7
500	92.7	95.7	94.8	95.7	95.9	95.6	96.1	97.2	98.5	99.8	102.2	103.9	105.4	105.8	96.5	84.8	83.1	72.3	61.1
630	90.2	93.1	92.1	93.2	93.3	92.9	93.4	94.7	95.9	97.3	99.7	101.4	103.0	103.5	94.0	82.2	80.4	69.7	58.4
800	87.5	90.3	89.3	90.4	90.6	90.2	90.6	91.9	93.2	94.6	97.0	98.8	100.6	101.0	91.5	79.4	77.8	67.1	55.6
1000	84.6	87.4	86.5	87.6	87.7	87.3	87.8	89.1	90.3	91.7	94.1	96.1	98.1	98.4	88.8	76.7	75.2	64.4	52.7
1250	81.5	84.3	83.3	84.5	84.6	84.2	84.9	86.2	87.3	88.8	91.1	93.2	95.4	95.6	85.8	73.5	72.1	61.0	49.1
1600	78.3	81.0	80.1	81.3	81.3	81.0	81.9	83.2	84.4	85.9	88.0	90.0	92.5	92.7	82.8	70.1	68.8	57.4	44.5
2000	75.1	77.4	76.9	78.2	78.1	77.8	78.5	80.1	81.2	82.8	84.9	86.9	89.5	89.7	79.6	66.4	65.3	53.9	40.3
2500	71.7	73.6	73.3	74.3	74.5	74.2	74.9	76.2	77.4	78.9	81.0	83.0	85.6	85.8	75.6	62.1	61.1	49.2	34.2
3150	67.6	69.6	69.2	70.2	70.5	70.1	70.8	71.9	73.1	74.5	76.7	78.9	81.3	81.6	71.2	57.1	56.2	43.5	27.4
4000	63.4	64.9	64.6	65.5	65.6	65.4	66.1	67.0	68.3	69.7	72.1	74.3	76.5	76.8	66.2	51.6	50.5	36.7	17.6
5000	58.3	59.6	59.7	60.4	60.7	60.3	61.6	62.6	63.4	64.7	67.2	69.4	71.2	72.0	60.9	45.7	43.7	27.9	7.8
6300	52.9	54.4	54.3	55.1	55.3	55.0	55.6	56.7	58.1	59.3	62.0	64.2	65.7	67.0	55.5	39.0	36.0	16.1	
8000	48.1	48.5	48.4	50.4	50.7	50.3	51.1	52.2	53.9	54.9	57.8	59.7	62.0	63.2	51.4	32.9	30.5	7.6	
10000	42.2	44.2	43.9	45.2	45.2	45.0	45.8	47.3	49.1	50.0	53.2	55.1	57.9	59.0	46.7	25.4	24.3		
12500	36.4	38.2	38.3	39.4	39.7	39.3	40.1	41.5	43.4	44.4	48.1	50.1	53.5	54.4	41.3	17.1	16.4		
16000	30.3	31.7	31.5	32.6	33.4	32.9	33.6	35.1	37.1	38.1	41.9	44.1	48.5	49.2	35.3	8.8	8.5		
20000	24.5	25.2	24.8	25.8	26.3	26.1	26.4	27.6	29.6	31.3	34.8	37.3	42.9	43.6	27.9	.4	.6		
25000	7.5	9.8	8.7	11.8	11.0	10.5	13.7	15.3	19.4	22.7	26.0	29.8	36.3	36.1	16.3				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. J85-17
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-040
RUN 01
AIRCRAFT CODE 004
OPERATION CODE 01018
PROFILE VERSION A
12 FEB 76
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	88.4	90.7	90.4	91.1	91.2	90.8	91.3	92.5	94.4	95.9	98.1	100.2	101.0	102.0	91.3	78.9	77.4	67.4	57.4
250	86.3	88.5	88.2	89.0	89.0	88.7	89.1	90.4	92.3	93.7	96.0	98.1	98.9	99.3	89.3	76.8	75.4	65.4	55.4
315	84.1	86.3	86.1	86.8	86.8	86.5	87.0	88.2	90.1	91.6	93.8	95.9	96.8	97.8	87.2	74.8	73.3	63.3	53.3
400	81.9	84.1	83.8	84.0	84.0	84.3	84.8	86.0	87.9	89.4	91.6	93.8	94.7	95.7	85.1	72.7	71.2	61.2	51.2
500	79.7	81.8	81.6	82.4	82.4	82.0	82.5	83.8	85.6	87.1	89.4	91.5	92.6	93.5	82.9	70.5	69.1	59.1	49.1
630	77.4	79.4	79.3	80.0	80.1	79.7	80.2	81.5	83.3	84.8	87.1	89.2	90.3	91.3	80.6	68.2	66.8	56.8	46.8
800	75.1	77.3	76.9	77.7	77.7	77.3	77.9	79.1	81.0	82.4	84.7	86.9	88.0	89.0	78.3	65.8	64.5	54.5	44.5
1000	72.7	74.6	74.5	75.3	75.3	74.9	75.5	76.7	78.5	79.9	82.2	84.4	85.7	86.7	75.8	63.3	62.1	52.1	42.1
1250	70.2	72.0	72.0	72.7	72.7	72.3	73.0	74.2	76.0	77.4	79.7	81.9	83.1	84.1	73.2	60.5	59.3	49.3	39.3
1600	67.7	69.4	69.3	70.1	70.1	69.7	70.4	71.5	73.3	74.7	77.0	79.2	80.5	81.5	70.4	57.5	56.5	46.5	36.5
2000	65.0	66.6	66.6	67.4	67.3	67.0	67.7	68.8	70.6	71.9	74.2	76.4	77.8	78.8	67.6	54.4	53.5	43.5	33.5
2500	62.1	63.6	63.6	64.3	64.3	64.0	64.7	65.8	67.5	68.7	71.1	73.3	74.5	75.7	64.2	50.9	49.9	39.9	29.9
3150	58.9	60.3	60.4	61.0	61.0	60.7	61.5	62.4	64.1	65.3	67.7	70.0	70.8	72.2	60.6	46.9	46.0	36.0	26.0
4000	55.3	56.7	56.8	57.4	57.4	57.1	57.9	58.7	60.4	61.4	63.9	66.3	66.8	68.5	56.6	42.6	41.6	31.6	21.6
5000	51.2	52.7	52.8	53.3	53.3	53.1	53.8	54.5	56.2	57.2	59.8	62.2	62.4	64.3	52.3	38.1	36.9	26.9	16.9
6300	48.0	48.3	48.5	48.9	48.9	48.7	49.4	50.1	51.8	52.7	55.3	57.7	57.8	59.9	47.7	33.5	32.1	22.1	12.1
8000	42.9	44.3	44.4	44.9	45.0	44.8	45.5	46.2	47.8	48.6	51.3	53.0	54.1	56.1	44.1	30.0	28.7	18.7	8.7
10000	38.7	39.9	40.1	40.6	40.7	40.5	41.3	42.0	43.0	44.2	46.9	49.1	50.3	52.0	40.1	26.4	25.1	15.1	5.1
12500	34.2	35.1	35.3	35.9	36.0	35.8	36.7	37.4	39.0	39.4	42.2	44.3	46.1	47.5	36.0	22.7	21.3	11.3	1.3
16000	29.1	29.9	30.1	30.8	30.9	30.7	31.7	32.5	34.0	34.4	37.2	39.1	41.0	42.7	31.6	18.9	17.3	7.3	
20000	23.6	24.3	24.4	25.3	25.4	25.1	26.1	27.0	28.6	29.1	31.8	33.6	36.8	37.6	26.9	14.9	13.0	3.0	
25000	17.4	18.0	18.2	19.3	19.4	19.1	20.1	21.1	22.7	23.3	25.9	27.8	31.6	32.1	22.1	10.9	8.5		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OSA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. JT8-17
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 75 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-304-040
RUN 01
AIRCRAFT CODE 004
OPERATION CODE 01018
PROFILE VERSION A
12 FEB 76
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	89.3	91.8	91.3	92.0	92.1	91.7	92.2	93.2	94.4	95.9	98.1	100.2	101.0	102.0	91.3	78.9	78.0	68.0	58.0
250	87.2	89.6	89.1	89.9	90.0	89.6	90.0	91.0	92.3	93.7	96.0	98.1	99.9	99.9	89.3	76.8	75.9	65.9	55.9
315	85.0	87.4	87.0	87.7	87.5	87.4	87.8	88.9	90.1	91.6	93.6	95.9	96.8	97.8	87.2	74.8	73.9	63.9	53.9
400	82.8	85.1	84.8	85.5	85.6	85.2	85.5	86.7	87.9	89.4	91.6	93.8	94.7	95.7	85.1	72.7	71.8	61.8	51.8
500	80.6	82.9	82.5	83.3	83.4	82.9	83.4	84.4	85.5	87.1	89.4	91.5	92.6	93.5	82.9	70.5	69.7	59.7	49.7
630	78.3	80.5	80.2	81.0	81.1	80.5	81.1	82.1	83.3	84.8	87.1	89.2	90.3	91.3	80.0	68.2	67.4	57.4	47.4
800	76.0	78.1	77.8	78.6	78.7	78.2	78.6	79.7	81.0	82.4	84.7	86.3	88.0	89.0	78.3	65.8	65.1	55.1	45.1
1000	73.6	75.6	75.4	76.2	76.3	75.8	76.4	77.3	78.5	79.9	82.2	84.4	85.7	86.7	75.8	63.3	62.6	52.6	42.6
1250	71.1	73.1	72.9	73.7	73.7	73.2	73.8	74.8	76.0	77.4	79.7	81.9	83.1	84.1	73.2	60.5	59.9	49.9	39.9
1600	68.5	70.4	70.2	71.0	71.0	70.5	71.3	72.2	73.3	74.7	77.0	79.2	80.5	81.5	70.4	57.5	57.0	47.0	37.0
2000	65.9	67.7	67.5	68.3	68.3	67.9	68.6	69.4	70.6	71.9	74.2	76.4	77.8	78.8	67.6	54.4	54.0	44.0	34.0
2500	63.1	64.7	64.6	65.3	65.3	64.9	65.6	66.4	67.5	68.7	71.1	73.3	74.5	75.7	64.2	50.9	50.5	40.5	30.5
3150	59.7	61.4	61.3	62.0	62.0	61.6	62.3	63.0	64.1	65.3	67.7	70.0	70.8	72.2	60.6	46.9	46.5	36.5	26.5
4000	56.6	57.6	57.5	58.1	58.2	57.8	58.6	59.2	60.4	61.4	63.9	66.3	66.8	68.5	56.6	42.6	42.0	32.0	22.0
5000	51.7	53.3	53.3	53.4	53.9	53.6	54.3	54.9	56.2	57.2	59.8	62.2	62.4	64.3	52.3	38.1	37.2	27.2	17.2
6300	47.2	48.8	48.8	49.3	49.3	49.1	49.8	50.4	51.8	52.7	55.3	57.7	57.8	59.9	47.7	33.5	32.3	22.3	12.3
8000	43.1	44.5	44.6	45.1	45.2	44.9	45.7	46.3	47.8	48.6	51.3	53.6	54.1	56.1	44.1	30.0	28.8	18.8	8.8
10000	38.7	39.9	40.1	40.6	40.7	40.5	41.3	42.0	43.0	44.2	46.9	49.1	50.3	52.0	40.1	26.4	25.1	15.1	5.1
12500	34.2	35.1	35.3	35.9	36.0	35.8	36.7	37.4	38.0	39.4	42.2	44.*	46.1	47.5	36.0	22.7	21.3	11.3	1.3
16000	29.1	29.9	30.1	30.8	30.9	30.7	31.7	32.5	34.0	34.4	37.2	39.1	41.6	42.7	31.*	18.9	17.3	7.3	
20000	23.6	24.3	24.4	25.3	25.4	25.1	26.1	27.0	28.0	29.1	31.8	33.0	35.8	37.6	26.9	14.9	13.0	3.0	
25000	17.4	18.0	18.2	19.3	19.4	19.1	20.1	21.1	22.7	23.3	25.9	27.8	31.6	32.1	22.1	10.9	8.5		

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

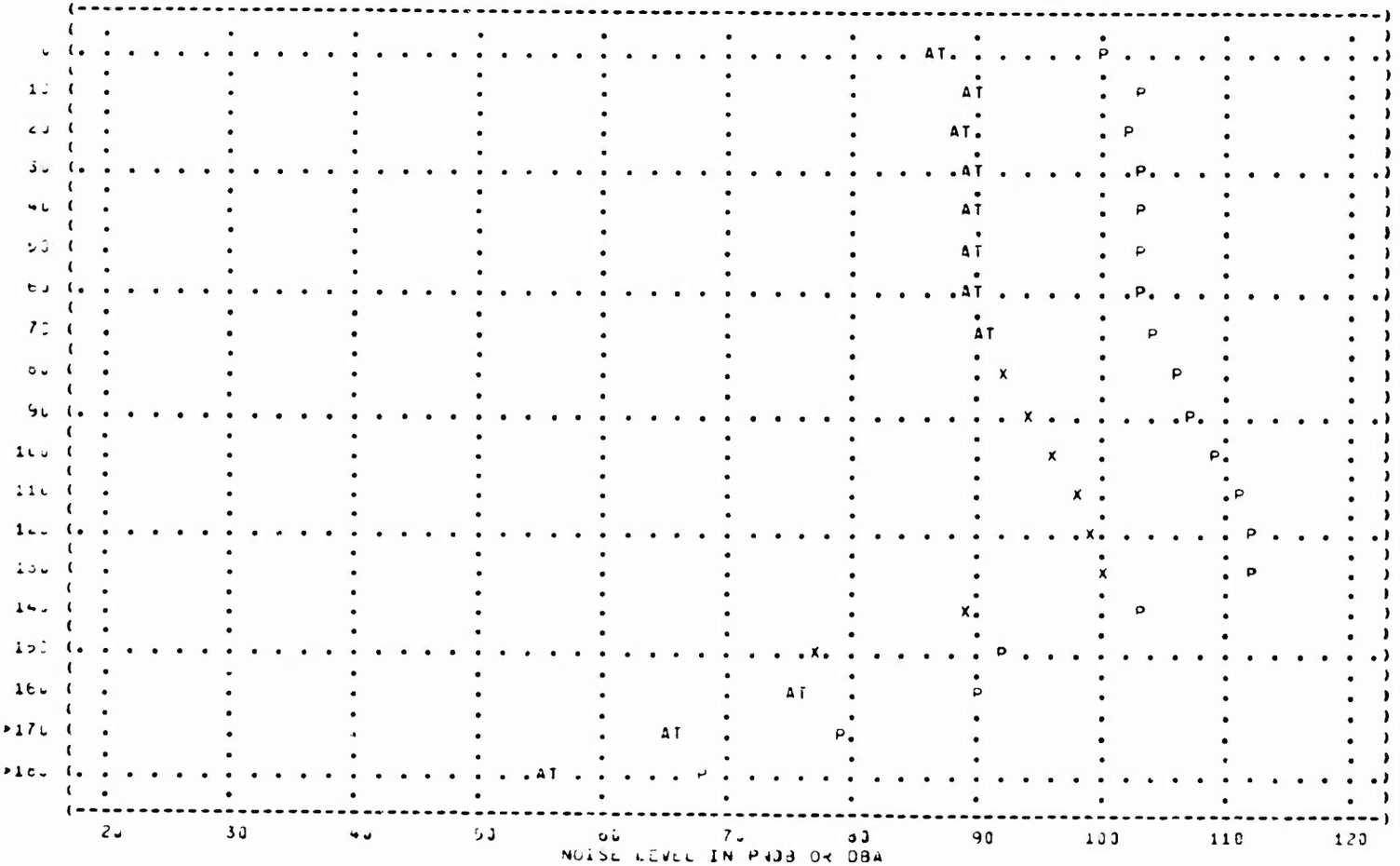
NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. J85-17
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-040
RUN 01
AIRCRAFT CODE 004
OPERATION CODE 01018
PROFILE VERSION A
12 FEB 76
PAGE 31

P=PNLT A=AL T=ALT



* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-040
RUN 02
AIRCRAFT CODE 004
OPERATION CODE 01004
PROFILE VERSION A
12 FEB 76
PAGE C2

NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. J85-17
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	74	72	74	74	76	77	78	80	81	83	87	91	95	93	91	88	84	74	64
63	77	76	76	78	78	80	80	81	83	85	88	92	97	96	94	88	83	73	63
80	77	77	77	79	81	82	82	82	84	87	90	95	99	99	95	87	79	69	59
100	78	77	79	81	82	81	84	85	85	88	92	97	100	100	95	85	74	64	54
125	80	80	83	84	86	85	87	87	90	93	95	100	104	103	94	85	77	67	57
160	81	82	84	87	88	89	90	91	91	93	99	103	106	103	93	84	76	66	56
200	83	83	87	87	89	88	88	91	91	93	99	105	106	104	91	82	78	68	58
250	85	85	89	89	90	90	91	93	94	96	101	106	108	107	90	83	81	71	61
315	89	88	90	92	91	90	92	94	96	100	104	108	109	107	89	81	80	70	60
400	89	88	94	94	91	91	94	95	95	99	104	105	108	105	88	81	79	69	59
500	89	91	91	90	91	91	92	94	97	99	101	101	104	106	89	78	76	66	56
630	90	89	90	91	91	90	92	92	93	96	100	101	107	106	86	77	73	63	53
800	89	90	90	89	90	92	92	91	93	95	99	102	104	109	86	76	69	59	49
1000	86	88	89	89	89	89	91	91	92	94	98	103	106	110	83	75	70	60	50
1250	85	85	86	86	88	88	90	91	93	96	100	105	105	108	82	74	69	59	49
1600	83	85	87	87	88	87	89	91	94	96	100	103	104	105	80	74	67	57	47
2000	81	82	85	86	86	86	88	91	93	96	100	101	102	104	78	74	67	57	47
2500	80	81	86	86	86	85	89	91	93	95	99	101	101	102	77	75	66	56	46
3150	77	78	83	83	83	83	88	90	91	93	97	97	99	100	75	72	65	55	45
4000	75	75	82	83	83	82	86	89	91	94	97	97	98	99	75	70	63	53	43
5000	71	72	80	80	82	80	85	87	90	92	95	96	96	97	73	67	61	51	41
6300	67	69	77	76	78	76	81	85	87	90	92	93	94	95	71	64	58	48	38
8000	63	65	73	73	75	73	78	81	84	86	89	90	91	93	67	60	54	44	34
10000	58	59	68	67	70	67	73	76	80	82	85	87	90	90	62	54	49	39	29
OVERALL	98	98	101	101	101	101	103	104	106	108	112	115	117	118	103	95	90	80	70

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. J85-17
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-040
RUN 02
AIRCRAFT CODE 004
OPERATION CODE 01J04
PROFILE VERSION A
12 FEB 76
PAGE 02

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	108.3	108.9	112.7	113.0	113.3	112.9	115.9	117.8	119.5	121.9	125.7	127.8	129.1	130.1	109.8	103.5	97.6	87.1	76.7
250	106.2	106.7	110.5	110.8	111.0	110.7	113.0	115.6	117.2	119.7	123.5	125.6	126.9	127.9	107.7	101.3	95.4	84.9	74.5
315	104.0	104.6	108.3	108.0	108.8	108.4	111.4	113.3	114.9	117.3	121.2	123.3	124.6	125.6	105.5	99.0	93.1	82.7	72.2
400	101.8	102.3	105.9	106.3	106.5	106.1	109.0	110.9	112.6	115.0	118.8	121.0	122.3	123.3	103.3	96.7	90.9	80.4	69.9
500	99.5	100.1	103.5	103.9	104.0	103.7	106.6	108.5	110.1	112.5	116.4	118.8	119.9	121.0	101.0	94.3	88.5	78.1	67.5
630	97.1	97.7	101.0	101.3	101.5	101.1	104.1	105.9	107.6	110.0	113.9	116.1	117.4	118.5	98.7	91.7	86.1	75.6	65.0
800	94.6	95.2	98.5	98.8	98.8	98.5	101.4	103.2	104.9	107.3	111.2	113.4	114.8	115.9	96.2	89.0	83.6	73.1	62.4
1000	92.1	92.7	95.9	96.2	96.0	95.7	98.5	100.4	102.0	104.4	108.4	110.6	112.0	113.2	93.6	86.1	81.0	70.5	59.6
1250	89.4	90.0	93.1	93.5	93.0	92.6	95.5	97.3	98.9	101.4	105.3	107.7	109.2	110.2	90.7	83.1	78.2	67.7	56.6
1600	86.6	87.2	90.3	90.6	89.7	89.6	92.6	94.0	95.6	98.1	102.0	104.6	106.3	107.1	87.7	79.8	75.3	64.7	53.3
2000	83.6	84.3	87.3	87.6	86.5	86.5	89.1	90.4	92.1	94.7	98.8	101.2	103.2	104.0	84.5	76.6	72.2	61.4	49.8
2500	80.5	81.1	83.5	83.8	82.9	82.9	85.3	86.5	88.5	90.9	94.9	97.0	99.3	100.6	81.0	72.7	68.2	57.3	45.0
3150	76.6	77.2	79.3	79.6	79.3	79.2	81.6	82.5	84.5	86.9	90.8	93.5	95.1	96.9	77.0	68.2	63.7	52.2	39.6
4000	72.7	73.3	74.6	75.0	75.0	75.1	76.7	78.1	80.1	82.4	86.3	89.0	90.4	92.9	72.5	63.2	58.6	46.6	33.1
5000	68.6	68.3	69.9	70.2	70.2	70.6	72.2	73.2	75.2	77.6	81.4	84.2	85.6	88.4	67.6	58.0	53.0	40.6	23.5
6300	63.1	63.6	64.9	65.2	65.2	65.6	67.2	68.1	70.1	72.5	76.0	79.2	81.0	83.7	62.5	52.5	47.3	33.9	14.0
8000	59.1	59.5	60.8	61.0	61.0	61.2	62.7	63.9	65.9	68.4	71.7	74.4	76.5	79.4	58.4	47.7	42.7	28.0	4.6
10000	54.4	55.1	56.3	56.6	56.3	56.4	57.9	59.4	61.5	63.9	67.2	69.5	71.9	74.6	54.2	42.2	37.1	19.8	
12500	49.3	50.1	51.3	51.1	51.1	51.2	53.0	54.5	56.6	59.1	62.4	64.6	67.2	69.5	49.3	35.6	31.6	11.8	
16000	43.6	44.4	45.7	45.5	45.5	45.5	47.3	48.9	51.3	53.3	57.1	59.3	62.1	63.5	43.8	29.0	23.7	3.8	
20000	36.2	37.5	38.0	38.8	38.5	38.0	40.8	42.6	45.0	47.8	51.3	53.0	56.6	57.5	37.2	18.5	13.1		
25000	28.5	29.4	31.1	31.4	30.2	30.8	32.0	34.4	37.1	40.4	44.6	47.5	50.6	51.2	27.5	8.0	2.5		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. J85-17
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-304-040
RUN 02
AIRCRAFT CODE 304
OPERATION CODE 01004
PROFILE VERSION A
12 FEB 76
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	106.3	106.9	113.3	113.6	113.3	112.9	115.9	117.8	119.5	121.9	125.7	127.8	129.1	130.1	109.8	103.5	97.6	87.1	76.7
250	106.2	106.7	111.3	111.4	111.0	110.7	113.6	115.6	117.2	119.7	123.5	125.6	126.9	127.9	107.7	101.3	95.4	84.9	74.5
315	104.0	104.6	108.8	109.1	108.8	108.4	111.4	113.3	114.9	117.3	121.2	123.3	124.6	125.6	105.5	99.0	93.1	82.7	72.2
400	101.8	102.3	106.5	106.8	106.5	106.1	109.0	110.9	112.6	115.0	118.8	121.0	122.3	123.3	103.3	96.7	90.9	80.4	69.9
500	99.5	100.1	104.0	104.4	104.0	103.7	106.6	108.5	110.1	112.5	116.4	118.6	119.9	121.0	101.0	94.3	88.5	78.1	67.5
630	97.1	97.7	101.5	101.9	101.5	101.1	104.1	105.9	107.6	110.0	113.9	116.1	117.4	118.5	98.7	91.7	86.1	75.6	65.0
800	94.6	95.2	99.0	99.3	98.8	98.5	101.4	103.2	104.9	107.3	111.2	113.4	114.8	115.9	96.2	89.0	83.6	73.1	62.4
1000	92.1	92.7	96.4	96.7	96.0	95.7	98.5	100.4	102.0	104.4	108.4	110.6	112.0	113.2	93.6	86.1	81.0	70.5	59.6
1250	89.4	90.0	93.7	94.0	93.0	92.6	95.5	97.3	98.9	101.4	105.3	107.7	109.2	110.2	90.7	83.1	78.2	67.7	56.6
1600	86.6	87.2	90.8	91.1	89.7	89.6	92.2	94.0	95.6	98.1	102.0	104.6	106.3	107.1	87.7	79.8	75.3	64.7	53.3
2000	83.6	84.3	87.8	88.1	86.5	86.5	89.1	90.4	92.1	94.7	98.8	101.2	103.2	104.0	84.5	76.6	72.2	61.4	49.8
2500	80.3	81.1	84.8	84.3	82.9	82.9	85.3	86.5	88.5	90.9	94.9	97.6	99.3	100.6	81.0	72.7	68.2	57.3	45.0
3150	76.8	77.2	79.9	80.1	78.3	78.2	81.0	82.5	84.5	86.9	90.0	93.5	95.1	96.9	77.0	68.2	63.7	52.2	39.6
4000	72.7	73.0	75.1	75.4	75.0	75.1	76.7	78.1	80.1	82.4	86.3	89.0	90.4	92.9	72.5	63.2	58.6	46.6	33.1
5000	68.0	68.3	70.2	70.5	70.2	70.6	72.2	73.2	75.2	77.6	81.4	84.2	85.8	88.4	67.0	58.0	53.0	40.5	23.5
6300	63.1	63.6	65.1	65.4	65.2	65.6	67.2	68.1	70.1	72.5	76.0	79.2	81.0	83.7	62.5	52.5	47.3	33.9	14.0
8000	59.0	59.5	60.9	61.1	61.0	61.2	62.7	63.9	65.9	68	71.7	74.4	76.5	79.4	58.4	47.7	42.7	28.0	4.6
10000	54.4	55.1	56.3	56.3	56.3	56.4	57.9	59.4	61.5	63.9	67.2	69.5	71.9	74.5	54.2	42.2	37.1	19.8	
12500	49.3	50.1	51.3	51.1	51.1	51.2	53.0	54.5	56.6	59.1	62.4	64.6	67.2	69.5	49.3	35.6	31.6	11.8	
16000	43.0	44.4	45.7	45.5	45.5	45.6	47.3	48.9	51.3	53.8	57.1	59.3	62.1	63.6	43.6	29.0	23.7	3.9	
20000	36.2	37.5	38.8	38.8	38.5	38.6	40.8	42.6	45.0	47.9	51.3	53.6	56.6	57.6	37.2	18.5	13.1		
25000	28.5	29.4	31.1	31.4	30.2	30.8	32.6	34.4	37.1	40.4	44.8	47.5	50.6	51.2	27.5	8.0	2.5		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. J85-17
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-040
RUN 02
AIRCRAFT CODE 004
OPERATION CODE 01004
PROFILE VERSION A
12 FEB 76
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	97.8	98.4	100.5	101.7	101.7	100.5	102.9	104.3	106.1	108.6	112.4	114.8	116.3	116.5	96.3	88.5	84.0	74.0	64.0
250	95.7	96.3	98.4	98.6	98.5	98.4	100.7	102.2	103.9	106.4	110.2	112.7	114.2	116.3	94.2	86.4	81.9	71.9	61.9
315	93.6	94.2	96.3	96.5	96.4	96.3	98.0	100.0	101.7	104.2	108.0	110.5	112.1	114.2	92.1	84.3	79.8	69.8	59.8
400	91.5	92.0	94.1	94.3	94.2	94.1	96.3	97.7	99.5	102.0	105.8	108.4	109.9	112.0	90.0	82.1	77.7	67.7	57.7
500	89.3	89.9	91.9	92.1	92.0	91.9	94.1	95.4	97.2	99.7	103.5	106.1	107.7	109.8	87.8	79.9	75.5	65.5	55.5
630	87.1	87.7	89.7	89.9	89.7	89.6	91.8	93.1	94.8	97.3	101.2	103.8	105.4	107.5	85.6	77.6	73.3	63.3	53.3
800	84.9	85.4	87.3	87.5	87.4	87.3	89.4	90.7	92.4	94.9	98.8	101.4	103.0	105.2	83.3	75.2	71.0	61.0	51.0
1000	82.6	83.1	85.0	85.2	85.0	84.9	87.0	88.2	89.9	92.4	96.3	99.0	100.6	102.9	80.9	72.8	68.6	58.6	48.6
1250	80.2	80.7	82.5	82.7	82.5	82.4	84.4	85.6	87.3	89.8	93.7	96.4	98.1	100.4	78.4	70.2	66.1	56.1	46.1
1600	77.7	78.2	80.0	80.1	79.9	79.9	81.8	82.9	84.6	87.1	91.0	93.7	95.4	97.8	75.9	67.5	63.5	53.5	43.5
2000	75.1	75.7	77.5	77.5	77.2	77.2	79.1	80.1	81.8	84.3	88.2	90.8	92.6	95.1	73.2	64.7	60.7	50.7	40.7
2500	72.3	72.9	74.8	74.9	74.8	74.8	76.7	77.6	78.8	81.2	85.0	87.7	89.5	92.2	70.3	61.5	57.5	47.5	37.5
3150	69.2	69.8	71.8	71.2	71.1	71.1	72.8	73.6	75.4	77.8	81.6	84.3	86.2	89.1	67.0	58.1	54.0	44.0	34.0
4000	65.7	66.3	67.4	67.5	67.5	67.6	69.2	69.9	71.7	74.1	77.9	80.7	82.5	85.7	63.4	54.3	50.1	40.1	30.1
5000	61.7	62.4	63.3	63.4	63.5	63.6	65.2	65.8	67.5	69.9	73.6	76.0	78.5	81.8	59.3	50.1	45.7	35.7	25.7
6300	57.4	58.1	58.9	59.0	59.2	59.3	60.8	61.3	63.1	65.4	69.1	72.2	74.1	77.6	54.9	45.6	41.2	31.2	21.2
8000	53.5	54.2	55.0	55.1	55.2	55.3	56.8	57.3	59.0	61.3	65.0	67.8	69.9	73.4	51.2	41.7	37.5	27.5	17.5
10000	49.3	50.0	50.7	50.7	50.8	50.9	52.4	52.9	54.8	56.9	60.6	63.1	65.3	68.8	47.1	37.5	33.6	23.6	13.6
12500	44.7	45.3	46.0	46.1	46.1	46.2	47.7	48.2	50.0	52.2	55.8	58.1	60.4	63.7	42.7	33.1	29.4	19.4	9.4
16000	39.5	40.1	41.0	40.9	40.9	40.9	42.5	43.1	44.9	47.2	50.8	52.7	55.1	58.0	37.9	28.3	24.9	14.9	4.9
20000	33.8	34.4	35.4	35.4	35.2	35.2	36.8	37.5	39.4	41.8	45.3	47.0	49.5	51.8	32.7	23.3	20.0	10.0	
25000	27.5	28.0	29.3	29.3	28.9	28.9	30.0	31.5	33.3	35.8	39.3	41.0	43.5	45.8	27.2	18.0	14.7	4.7	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OASL)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. J85-17
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-040
RUN 02
AIRCRAFT CODE 004
OPERATION CODE 01004
PROFILE VERSION A
12 FEB 76
PAGE 62

DISTANCE (FEET)	ANGLE (DEGREES)																	
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	97.0	98.4	101.1	101.3	100.7	100.5	102.9	104.3	106.1	106.6	112.4	114.4	116.7	116.5	96.3	88.5	84.0	74.0	64.0
250	92.7	90.3	99.0	99.2	98.5	98.4	100.7	102.2	103.9	106.4	110.2	112.7	114.2	116.3	94.2	86.4	81.9	71.9	61.9
315	93.6	94.2	96.8	97.0	96.4	96.3	98.6	100.0	101.7	104.2	108.0	110.5	112.1	114.2	92.1	84.3	79.8	69.8	59.8
400	91.5	92.0	94.6	94.9	94.2	94.1	96.3	97.7	99.5	102.0	105.6	108.4	109.9	112.0	90.0	82.1	77.7	67.7	57.7
500	89.3	89.9	92.4	92.0	92.0	91.9	94.1	95.4	97.2	99.7	103.5	106.1	107.7	109.8	87.8	79.9	75.5	65.5	55.5
630	87.1	87.7	90.2	90.4	89.7	89.5	91.8	93.1	94.8	97.3	101.2	103.3	105.4	107.6	85.6	77.6	73.3	63.3	53.3
800	84.9	85.4	87.9	88.1	87.4	87.3	89.4	90.7	92.4	94.9	98.8	101.4	103.0	105.2	83.3	75.2	71.0	61.0	51.0
1000	82.6	83.1	85.5	85.7	85.0	84.9	87.0	88.2	89.9	92.4	96.3	99.0	100.6	102.9	80.9	72.8	68.6	58.6	48.6
1250	80.2	80.7	83.0	83.2	82.5	82.4	84.4	85.0	87.3	89.8	93.7	95.4	98.1	100.4	78.4	70.2	66.1	56.1	46.1
1600	77.7	78.2	80.5	80.7	79.9	79.9	81.8	82.9	84.0	87.1	91.0	93.7	95.4	97.0	75.9	67.5	63.5	53.5	43.5
2000	75.1	75.7	77.9	78.0	77.2	77.2	79.1	80.1	81.6	84.3	88.2	90.9	92.6	95.1	73.2	64.7	60.7	50.7	40.7
2500	72.3	72.9	74.9	75.0	74.3	74.3	76.1	77.0	78.0	81.2	85.0	87.7	89.5	92.2	70.3	61.5	57.5	47.5	37.5
3150	69.2	69.8	71.9	71.7	71.1	71.1	72.0	73.0	75.4	77.8	81.6	84.3	86.2	89.1	67.3	58.1	54.0	44.0	34.0
4000	65.7	66.3	67.8	68.0	67.5	67.5	69.2	69.9	71.7	74.1	77.9	80.7	82.5	85.7	63.4	54.3	50.1	40.1	30.1
5000	61.7	62.4	63.0	63.7	63.5	63.6	65.2	65.8	67.5	69.9	73.6	76.5	78.5	81.8	59.3	50.1	45.7	35.7	25.7
6300	57.4	58.1	59.1	59.3	59.2	59.3	60.8	61.3	63.1	65.4	69.1	72.2	74.1	77.6	54.9	45.6	41.2	31.2	21.2
8000	53.5	54.2	55.1	55.2	55.2	55.3	56.8	57.3	59.0	61.3	65.0	67.8	69.9	73.4	51.2	41.7	37.5	27.5	17.5
10000	49.3	50.0	50.7	50.7	50.8	50.9	52.4	52.9	54.6	56.9	60.6	63.1	65.3	68.6	47.1	37.5	33.6	23.6	13.6
12500	44.7	45.3	46.0	46.1	46.1	46.2	47.7	48.2	50.0	52.2	55.8	58.1	60.4	63.7	42.7	33.1	29.4	19.4	9.4
16000	39.5	40.1	41.0	41.9	40.9	40.9	42.5	43.1	44.9	47.2	50.8	52.7	55.1	58.0	37.9	28.3	24.9	14.9	4.9
20000	33.8	34.4	35.4	35.4	35.2	35.2	36.8	37.5	39.4	41.8	45.3	47.1	49.5	51.8	32.7	23.3	20.0	10.0	
25000	27.5	28.0	29.3	29.3	28.9	28.9	30.6	31.5	33.3	35.8	39.3	41.0	43.5	45.0	27.2	18.0	14.7	4.7	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

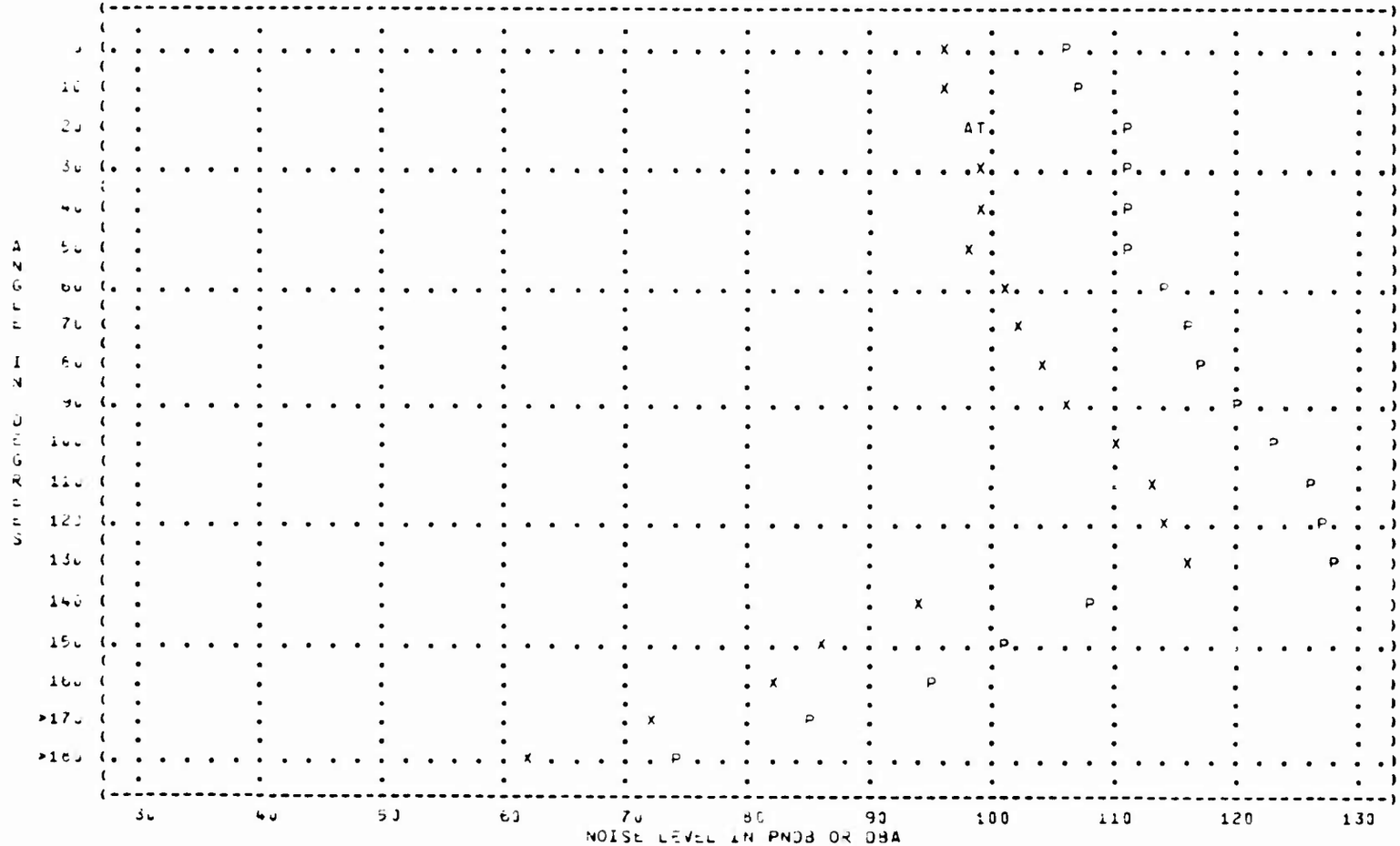
NOISE SOURCE/SUBJECT:
A-37B AIRCRAFT
ENG. J85-17
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-304-040
RUN 02
AIRCRAFT CODE 004
OPERATION CODE 01004
PROFILE VERSION A
12 FEB 76
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P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF F-4 AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

F-4 AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 031
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

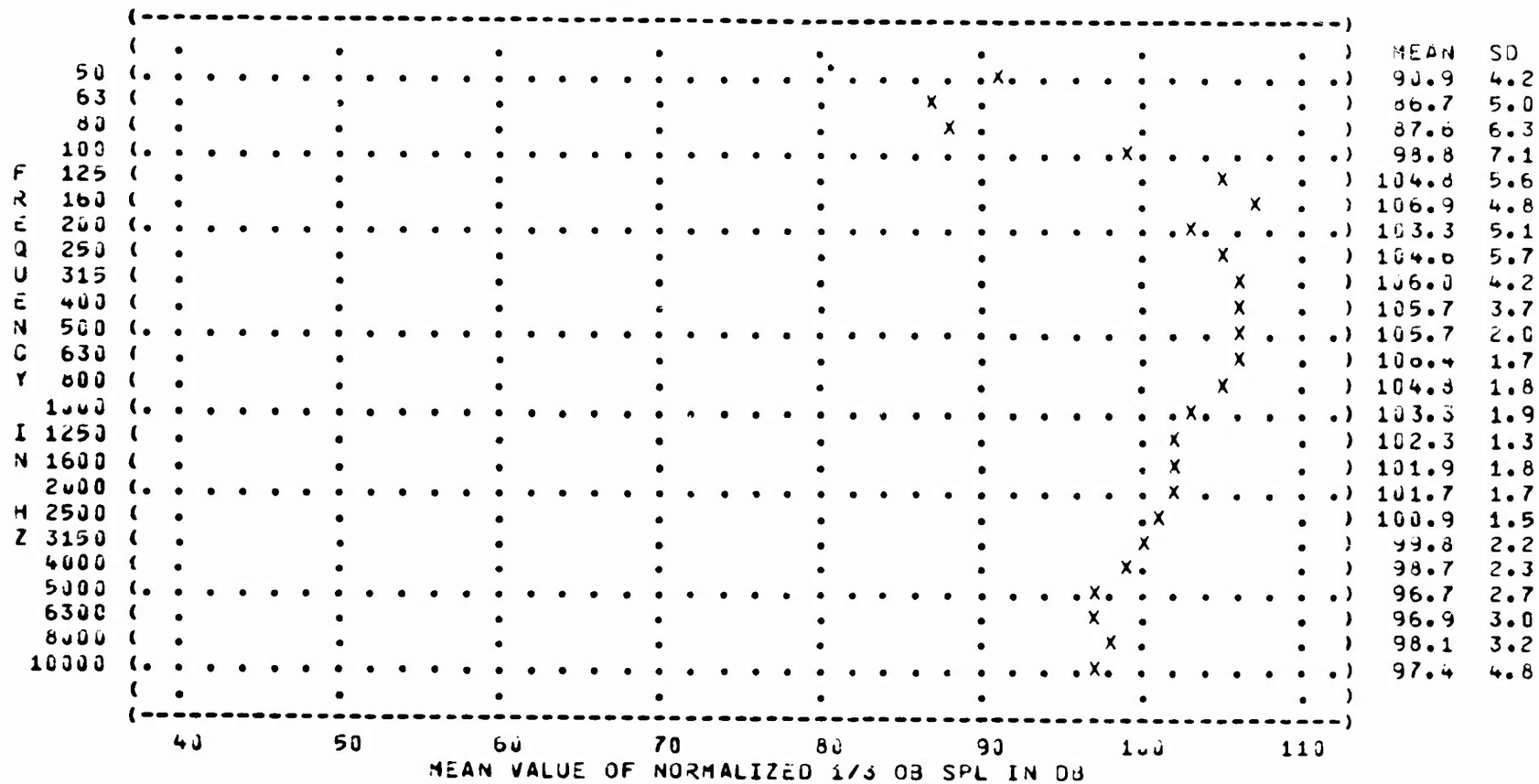
POWER SETTING	PAGE
AFTERBURNER 100% RPM	167-175
TAKEOFF 100% RPM	176-184
APPROACH 87% RPM	185-193
CRUISE 92% RPM	194-202

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
- AIR-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
- GROUND-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

30 MAR 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO



F-4 AFTERBURNER POWER 100 % RPM

AIRSPEED = 360 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 12

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-031-101-060175

PNLT = 126.8 PNDB
PNL = 120.8 PNDB
ALT = 113.8 DBA
AL = 113.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-4

OPERATION:
AFTERBURNER POWER
100 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
A/C CODE: 031
OPS CODE: 101
PROFILE VER: A
06 JAN 76
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	105	101	102	113	119	121	116	119	120	120	120	121	120	119	116	116	118	118	118	119	118	122	128	134
250	103	99	100	111	117	119	116	117	118	118	116	119	118	116	116	116	116	116	116	117	116	119	125	131
315	101	97	98	109	115	117	114	115	116	116	116	117	116	114	114	114	114	114	114	114	113	116	121	127
400	99	95	96	107	113	115	112	113	114	114	114	115	114	112	111	111	112	111	111	111	110	113	118	122
500	97	93	94	105	111	113	109	111	112	112	112	113	111	110	109	109	109	109	109	109	107	110	114	118
630	95	91	92	103	109	111	107	109	110	110	110	111	109	108	107	107	107	106	106	106	104	106	109	112
800	93	89	90	101	107	109	105	107	108	108	108	109	107	106	105	104	104	104	103	102	101	102	104	105
1000	91	87	88	99	105	107	103	105	106	106	106	106	105	103	102	102	102	101	100	99	97	97	98	97
1250	89	85	86	97	103	105	101	102	104	104	103	104	102	101	100	99	99	98	96	95	92	91	91	88
1600	87	83	84	95	101	103	99	100	102	101	101	102	100	98	97	96	96	94	92	90	87	85	83	77
2000	85	81	81	93	99	101	97	98	100	99	99	99	98	96	94	93	93	91	88	85	81	78	73	63
2500	83	79	79	91	96	99	95	96	97	97	96	97	95	93	91	90	89	87	83	79	74	69	61	46
3150	81	77	77	89	94	96	93	94	95	94	94	94	92	90	88	87	85	82	77	71	66	58	46	26
4000	79	74	75	86	92	94	90	91	93	92	91	92	89	87	85	82	80	76	71	63	57	45	28	1
5000	77	72	73	84	90	92	88	89	90	89	89	89	86	83	81	78	75	70	63	53	45	29	6	
6300	75	70	71	82	88	90	86	87	87	86	86	85	82	79	75	73	69	63	54	40	31	10		
8000	72	68	69	80	85	87	83	84	85	84	82	82	78	75	71	67	62	54	42	25	13			
10000	70	66	67	78	83	85	81	81	82	80	79	78	74	69	65	59	53	43	29	7				
12500	68	64	64	75	81	82	78	78	79	77	75	73	69	63	58	51	43	30	12					
16000	66	61	62	73	78	79	75	75	75	73	71	68	63	56	50	41	30	14						
20000	64	59	59	70	75	76	72	71	71	68	65	62	56	48	40	29	15							
25000	61	56	57	67	72	73	68	67	67	63	59	55	47	38	28	14								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-4

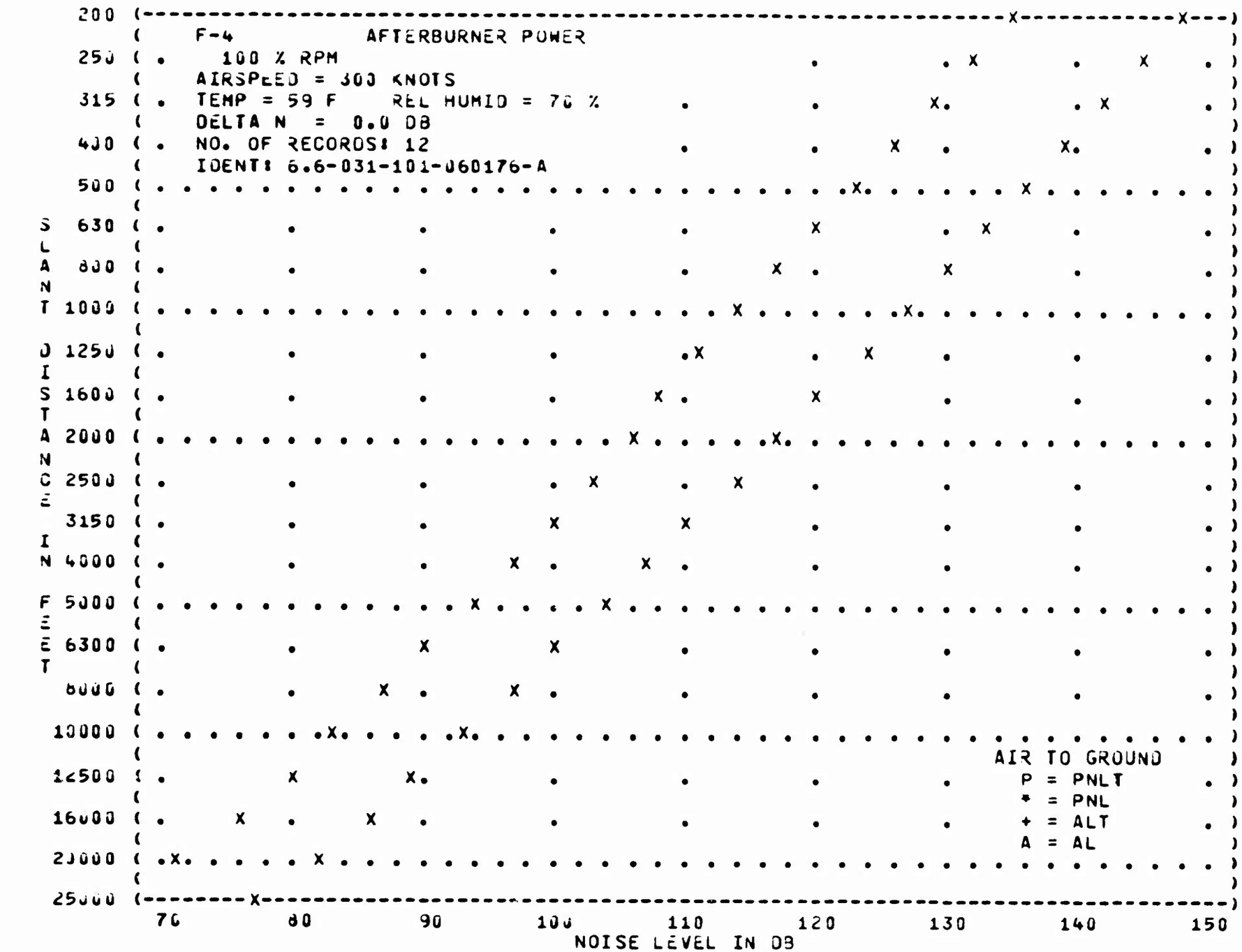
OPERATION: AFTERBURNER POWER, 100 % RPM, AIRSPEED = 300 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 031
OPS CODE: 101
PROFILE VER: A
16 JAN 76
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	134.6	134.6	148.2	148.2	132.3	133.2	136.2
250	131.9	131.9	145.4	145.4	130.4	131.3	134.4
315	128.8	128.8	142.4	142.4	128.3	129.2	132.5
400	125.7	125.7	139.3	139.3	126.2	127.1	130.3
500	122.6	122.6	135.9	135.9	124.1	125.0	127.9
630	119.5	119.5	132.8	132.8	122.0	122.9	125.8
800	116.6	116.6	129.9	129.9	120.1	121.0	123.9
1000	113.8	113.8	126.8	126.8	118.3	119.2	121.9
1250	111.0	111.0	123.7	123.7	116.5	117.4	119.7
1600	108.3	108.3	120.4	120.4	114.8	115.7	117.4
2000	105.6	105.6	117.0	117.0	113.1	114.0	115.0
2500	102.7	102.7	113.5	113.5	111.3	112.1	112.6
3150	99.9	99.9	110.3	110.3	109.4	110.2	110.3
4000	96.9	96.9	107.1	107.1	107.4	108.1	107.9
5000	93.7	93.7	103.8	103.8	105.3	105.9	105.4
6300	90.5	90.5	100.4	100.4	103.0	103.3	102.9
8000	87.1	87.1	96.9	96.9	100.6	100.8	100.2
10000	83.5	83.5	93.2	93.2	98.0	98.0	97.4
12500	79.7	79.7	89.5	89.5	95.2	95.2	94.6
16000	75.7	75.7	85.7	85.7	92.2	92.2	91.8
20000	71.5	71.5	81.7	81.7	89.0	89.0	88.9
25000	67.0	67.0	77.4	77.4	85.5	85.5	85.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-4 AFTERBURNER POWER
100 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-031-101-060176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB

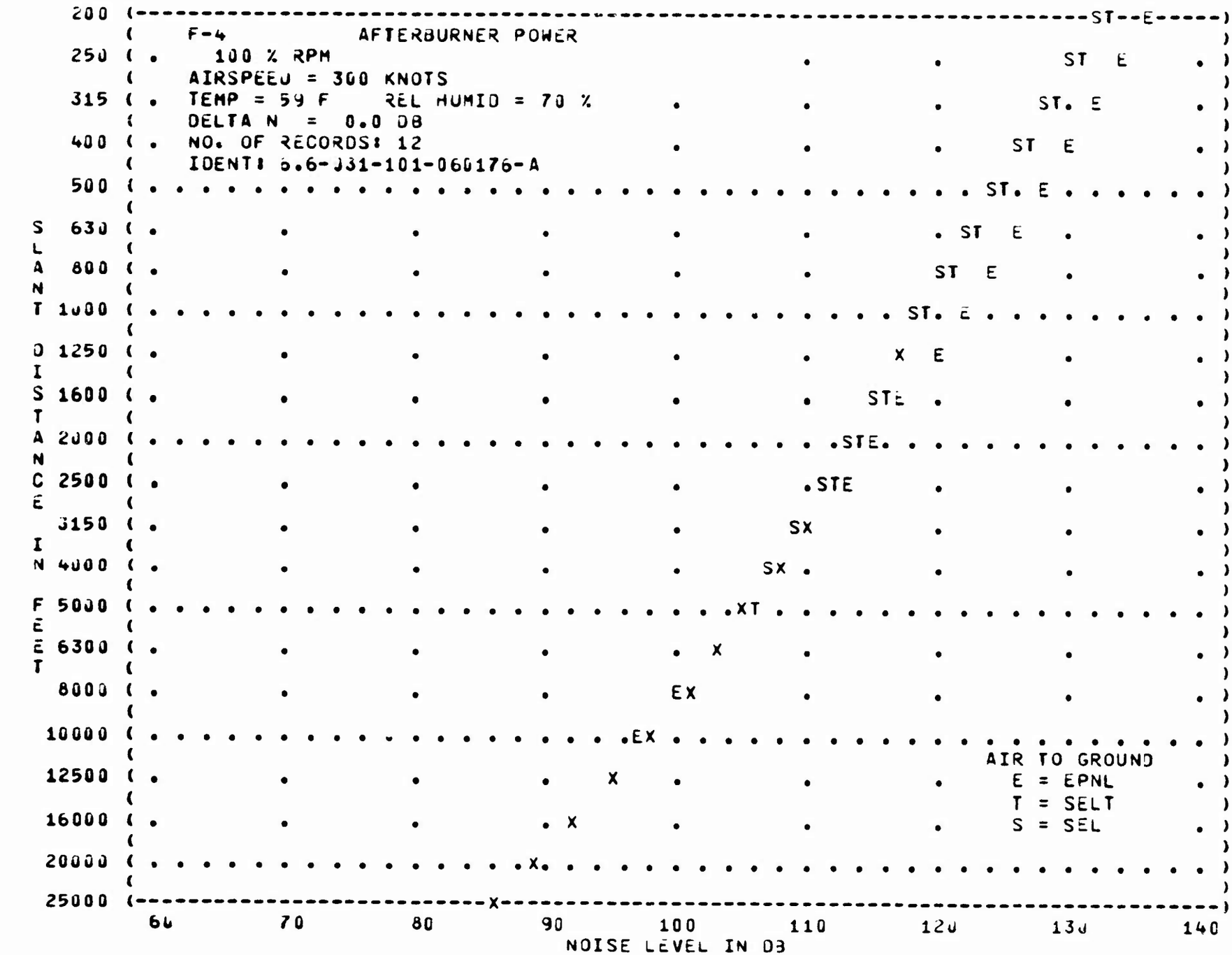

F-4 AFTERBURNER POWER
100 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-J31-101-060176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-4

OPERATION:
AFTERBURNER POWER
100 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 031
OPS CODE: 101
PROFILE VER: A
06 JAN 76
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	100	96	97	108	114	116	113	114	115	115	115	116	115	114	113	113	113	113	113	114	113	117	123	129
250	90	94	95	106	112	114	111	112	113	113	113	114	113	111	111	111	111	111	111	112	111	114	120	126
315	96	92	93	104	110	112	109	110	111	111	111	112	111	109	109	109	109	109	109	109	108	111	116	122
400	94	90	91	102	108	110	106	108	109	109	109	110	109	107	106	106	107	106	106	106	105	108	113	117
500	92	88	89	100	106	107	104	106	107	107	107	108	106	105	104	104	104	104	104	104	102	105	109	113
630	90	86	87	98	103	105	101	103	105	105	105	106	104	103	102	102	102	101	101	101	99	101	104	107
800	88	84	85	95	100	102	99	100	103	103	103	104	102	101	100	99	99	99	98	97	96	97	99	100
1000	86	82	83	93	98	99	96	97	101	101	101	101	100	98	97	97	97	96	95	94	92	92	93	92
1250	84	80	80	89	94	96	92	94	98	99	98	99	97	96	95	94	94	93	91	90	87	86	86	83
1600	82	77	76	86	91	93	89	91	95	96	96	97	95	93	92	91	91	89	87	85	82	80	78	72
2000	79	73	72	82	87	89	85	87	91	94	94	94	93	91	89	88	88	86	83	80	76	73	68	58
2500	75	69	68	78	83	84	81	82	87	90	91	92	90	88	85	85	85	84	82	78	74	69	64	56
3150	71	65	64	73	78	79	76	77	83	86	86	88	87	85	83	82	80	77	72	66	61	53	41	21
4000	67	60	58	67	72	74	70	72	77	81	84	86	84	82	80	77	75	71	66	58	52	40	23	
5000	62	55	54	63	67	69	65	67	71	76	80	82	80	78	76	73	70	65	58	48	40	24	1	
6300	57	50	49	58	63	64	60	62	65	70	76	77	76	74	71	68	64	58	49	35	26	5		
8000	54	46	47	56	60	62	58	59	63	68	72	74	72	70	66	62	57	49	37	20	8			
10000	52	46	45	54	58	59	55	56	60	64	69	70	68	64	60	54	48	38	24	2				
12500	50	44	42	51	56	57	52	53	57	61	65	66	63	58	53	46	38	25	7					
16000	48	41	40	49	53	54	49	50	53	57	60	60	57	51	45	36	25	9						
20000	46	39	37	46	50	51	46	46	49	52	55	54	50	43	35	24	10							
25000	43	36	35	43	47	48	43	42	45	47	49	47	41	33	23	9								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-4

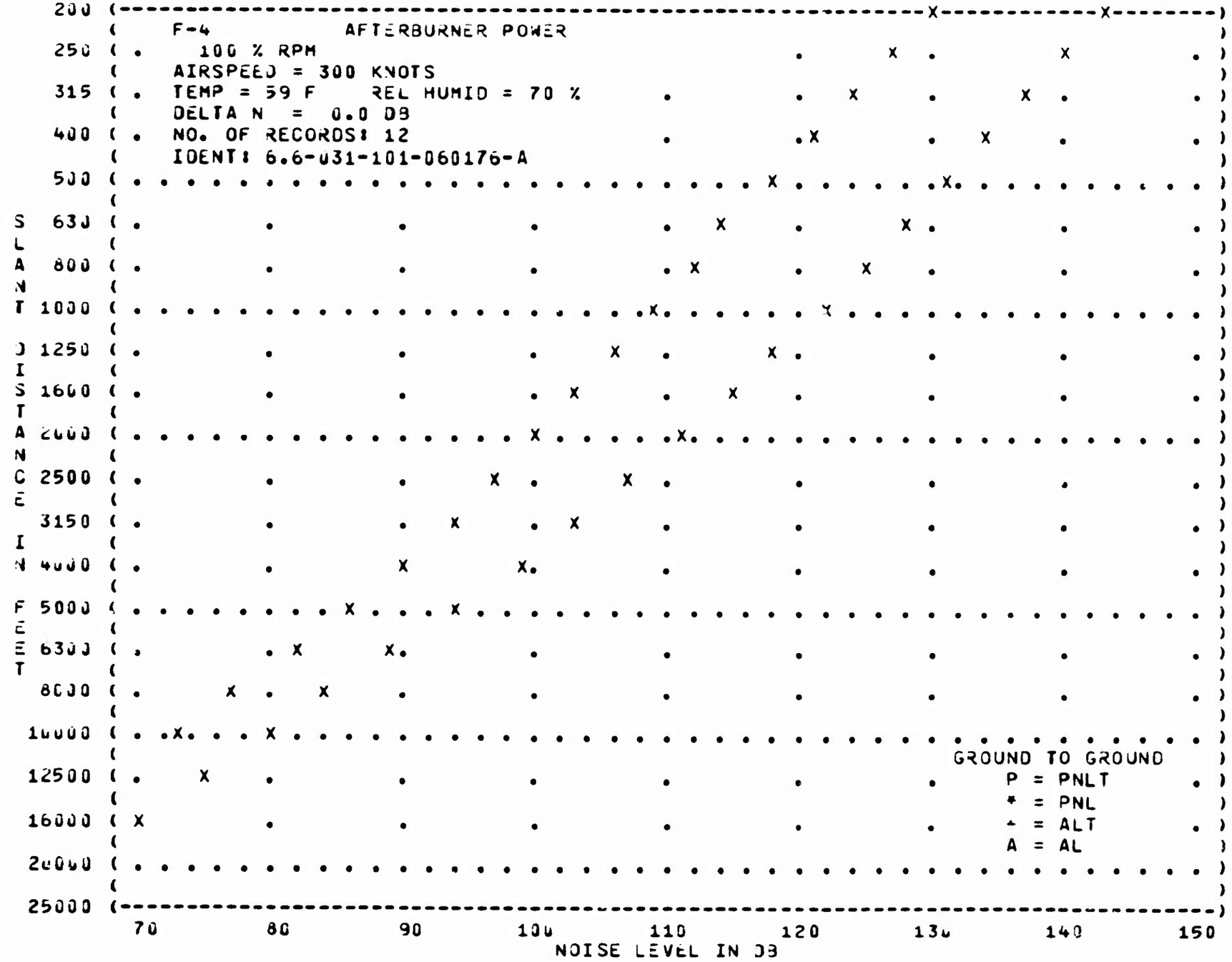
OPERATION: AFTERBURNER POWER 100 % RPM; AIRSPEED = 300 KNOTS

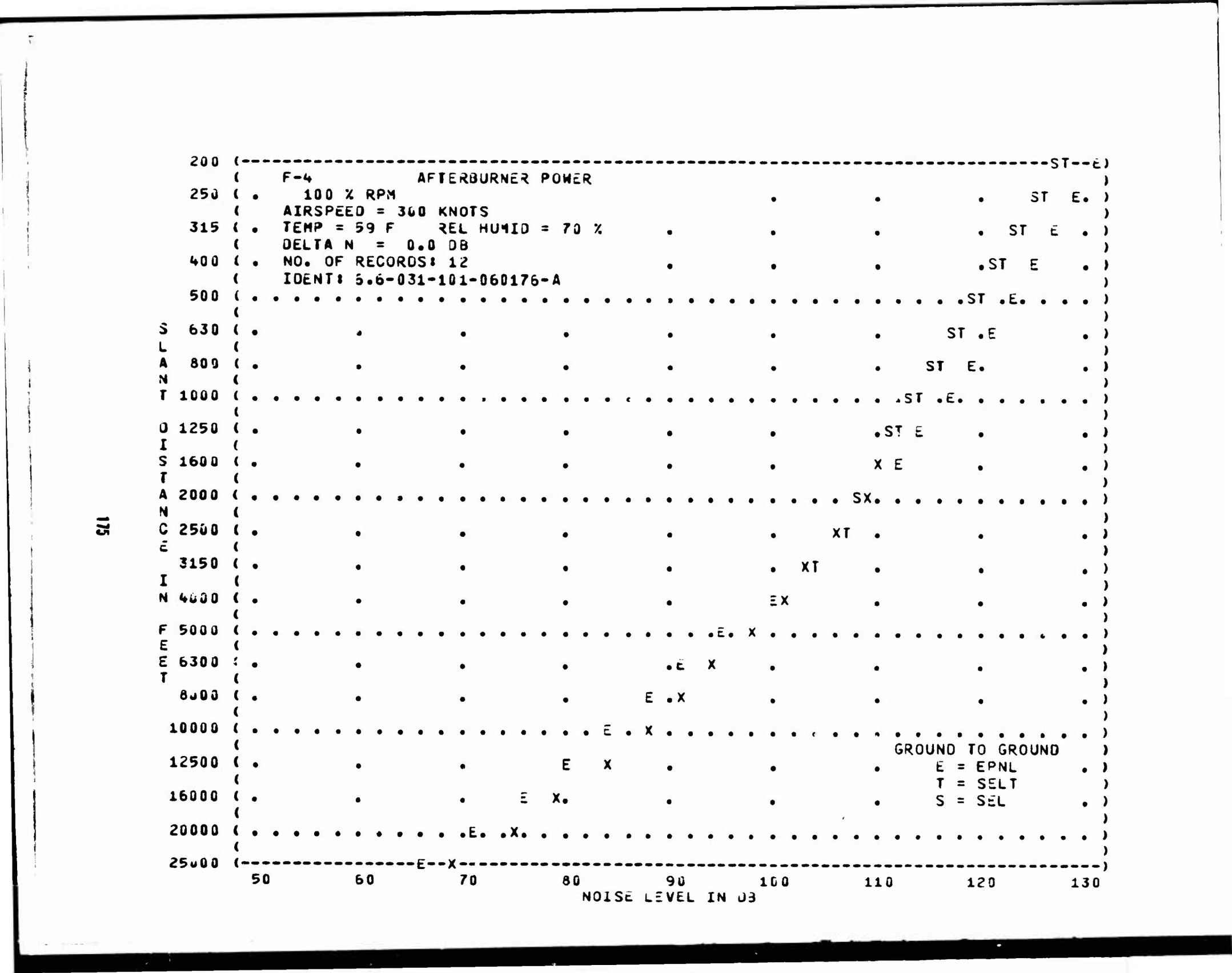
METEOROLOGY: TEMP = 59 F; REL HUMID = 70 %; DELTA N = 0.0 DB

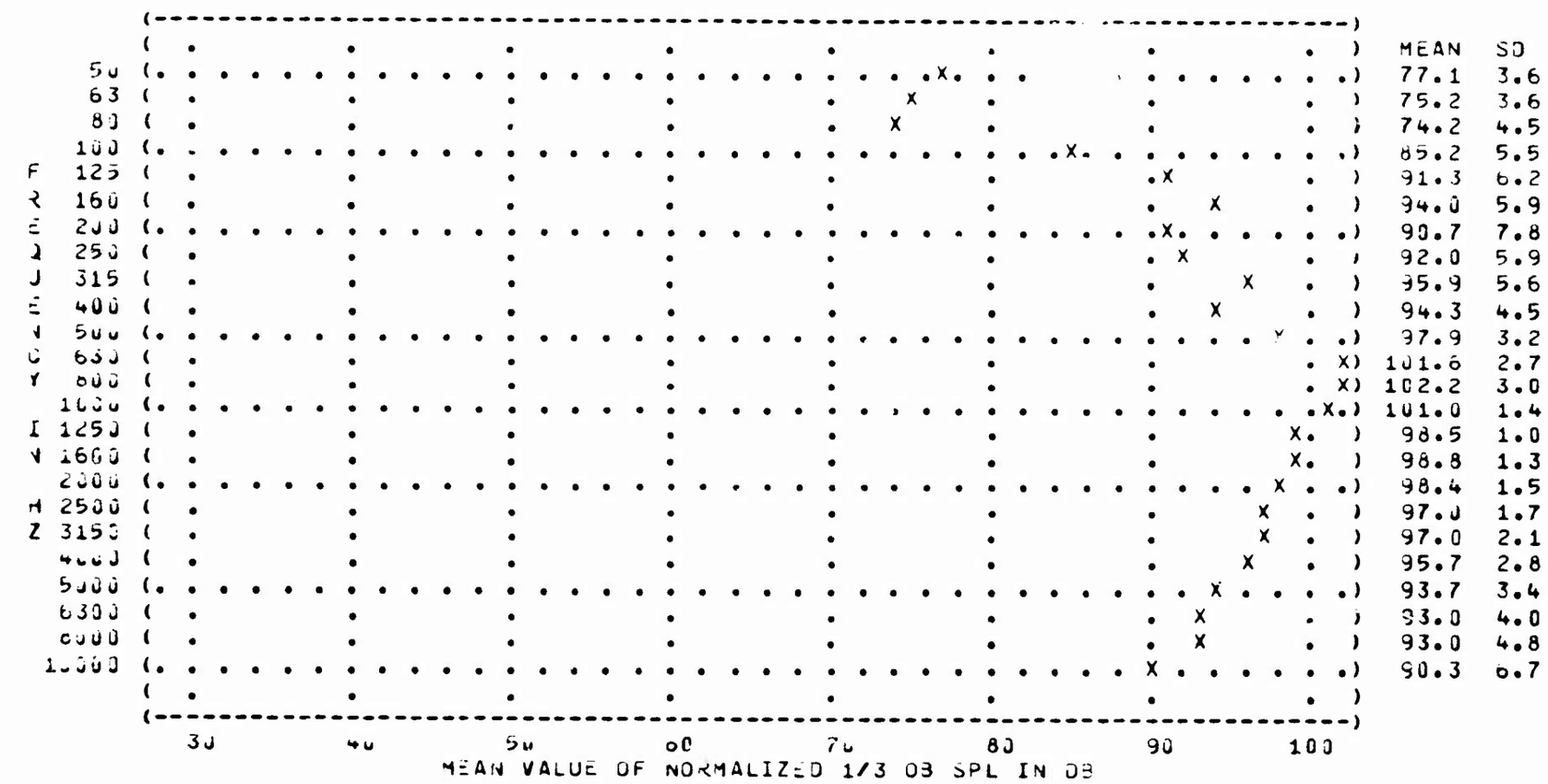
A/C CODE: 031
OPS CODE: 101
PROFILE VER: A
06 JAN 76
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	129.8	129.8	143.2	143.2	127.3	128.2	131.3
250	126.9	126.9	140.4	140.4	125.4	126.3	129.4
315	123.8	123.8	137.5	137.5	123.3	124.2	127.5
400	120.7	120.7	134.3	134.3	121.2	122.1	125.3
500	117.6	117.6	130.9	130.9	119.1	120.0	122.9
630	114.5	114.5	127.7	127.7	117.0	117.9	120.8
800	111.5	111.5	124.7	124.7	115.0	115.9	118.7
1000	108.7	108.7	121.6	121.6	113.2	114.1	116.6
1250	105.9	105.9	118.2	118.2	111.4	112.3	114.3
1600	103.1	103.1	114.7	114.7	109.6	110.5	111.7
2000	100.2	100.2	111.0	111.0	107.7	108.6	109.0
2500	97.2	97.2	107.0	107.0	105.7	106.5	106.0
3150	93.9	93.9	103.1	103.1	103.4	104.2	103.1
4000	90.2	90.2	98.7	98.7	100.7	101.4	99.5
5000	86.0	86.0	93.8	93.8	97.6	98.1	95.5
6300	81.6	81.6	88.7	88.7	94.1	94.4	91.2
8000	77.5	77.5	84.5	84.5	91.0	91.2	87.8
10000	73.1	73.1	79.9	79.9	87.6	87.6	84.0
12500	68.2	68.2	75.0	75.0	83.7	83.7	80.1
16000	62.9	62.9	69.6	69.6	79.4	79.4	75.8
20000	57.1	57.1	64.0	64.0	74.6	74.6	71.1
25000	50.7	50.7	57.7	57.7	69.2	69.2	65.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-4 AFTERBURNER POWER
100 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-031-101-060176-A
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB


F-4 AFTERBURNER POWER
100 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 5.6-031-101-060176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-4 TAKEOFF POWER 100 % RPM

AIRSPEED = 299 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-031-103-060176

PNLT = 122.5 PNDB
PNL = 122.0 PNDB
ALT = 110.2 DBA
AL = 109.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 031
OPS CODE: 103
PROFILE VER: A
06 JAN 76
PAGE H2

AIRCRAFT: F-4

OPERATION:
TAKEOFF POWER
100 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	91	89	88	99	105	108	105	106	110	109	113	116	117	116	114	115	115	114	115	116	115	117	122	126
250	89	87	86	97	103	106	103	104	108	107	111	114	115	114	112	113	113	112	113	113	113	115	119	123
315	87	85	84	95	101	104	101	102	106	105	108	112	113	112	110	110	111	110	111	111	110	112	116	119
400	85	83	82	93	99	102	99	100	104	103	106	110	111	110	108	108	108	107	108	108	107	109	112	115
500	83	81	80	91	97	100	97	98	102	101	104	108	109	108	105	106	106	105	106	106	104	105	108	110
630	81	79	78	89	95	98	95	96	100	98	102	106	107	106	103	104	104	103	103	103	101	102	104	104
800	79	77	76	87	93	96	93	94	98	96	100	104	104	103	101	101	101	100	100	99	98	98	99	98
1000	77	75	74	85	91	94<	91	92	96	94	98	102	102	101	99	99	98	97	97	96	94	93	93	90
1250	75	73	72	83	89	92	89	90	94	92	96	99	100	99	96	96	96	94	94	92	89	88	86	81
1600	73	71	70	81	87	90	87	88	92	90	94	97	97	96	93	93	93	91	90	87	84	82	78	70
2000	71	69	68	79	85	88	84	86	89	88	91	95	95	94	91	90	89	87	86	82	79	74	68	57
2500	69	67	66	77	83	86	82	83	87	85	89	92	92	91	88	87	86	83	81	76	72	66	57	41
3150	67	65	64	75	81	84	80	81	85	83	86	90	90	88	85	84	82	78	75	69	64	55	42	21
4000	65	63	62	73	79	81	78	79	83	81	84	87	87	85	81	80	77	73	69	61	55	43	25	
5000	63	61	60	71	77	79	76	77	80	78	81	84	83	81	77	75	72	67	61	51	43	27	4	
6300	61	59	58	68	74	77	73	74	77	75	78	81	80	77	73	70	66	59	52	39	29	9		
8000	59	57	55	66	72	74	71	71	75	72	75	77	76	73	68	64	59	51	41	24	13			
10000	57	54	53	64	70	72	68	69	72	69	71	73	72	68	62	57	51	40	28	6				
12500	54	52	51	62	67	69	65	66	69	65	67	69	66	62	55	49	41	28	11					
16000	52	50	49	59	65	67	62	63	65	62	65	64	61	55	47	39	29	13						
20000	50	48	46	56	62	64	59	59	61	57	58	58	54	47	37	27	14							
25000	47	45	44	54	59	60	56	55	57	52	52	51	46	37	25	13								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-4

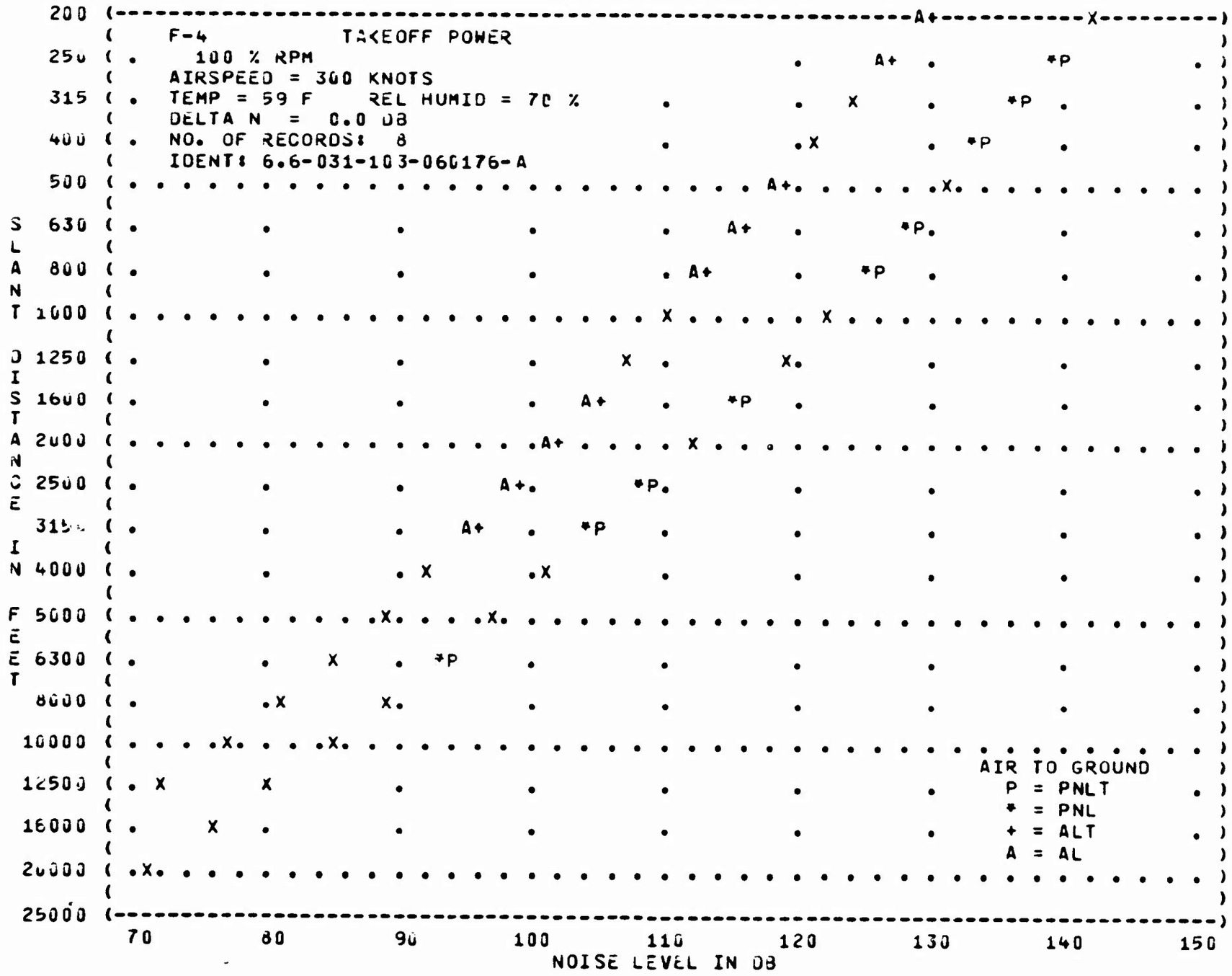
OPERATION: TAKEOFF POWER, 100 % RPM, AIRSPEED = 300 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 031
OPS CODE: 103
PROFILE VER: A
06 JAN 76
PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	129.1	129.6	141.8	142.3	127.7	128.8	131.2
250	126.4	126.9	139.0	139.5	126.1	127.1	129.5
315	123.7	124.2	136.1	136.6	124.3	125.4	127.5
400	120.9	121.4	133.5	134.0	122.5	123.6	125.9
500	118.1	118.6	130.8	131.3	120.7	121.7	124.3
630	115.2	115.7	128.0	128.5	118.9	119.9	122.5
800	112.4	112.9	125.1	125.6	117.1	118.1	120.5
1000	109.7	110.2	122.0	122.5	115.3	116.3	118.4
1250	106.9	107.4	118.7	119.2	113.5	114.6	116.1
1600	104.1	104.6	115.2	115.7	111.7	112.8	113.6
2000	101.2	101.7	111.7	112.2	109.9	110.9	111.1
2500	98.3	98.8	108.1	108.6	107.9	108.9	108.5
3150	95.2	95.7	104.3	104.8	105.8	106.8	105.8
4000	91.9	92.4	100.6	101.2	103.6	104.4	103.0
5000	88.5	88.8	97.2	97.5	101.2	101.8	100.2
6300	84.9	85.1	93.4	93.6	98.6	99.0	97.2
8000	81.1	81.2	89.3	89.4	95.7	95.9	94.0
10000	76.9	76.9	85.1	85.1	92.5	92.5	90.5
12500	72.4	72.4	80.5	80.5	89.0	89.0	86.9
16000	67.6	67.6	75.5	75.5	85.2	85.2	82.9
20000	62.4	62.4	70.7	70.7	81.1	81.1	79.1
25000	57.1	57.1	65.5	65.5	76.7	76.7	75.0

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-4 TAKEOFF POWER
100 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-031-103-060176-A
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB

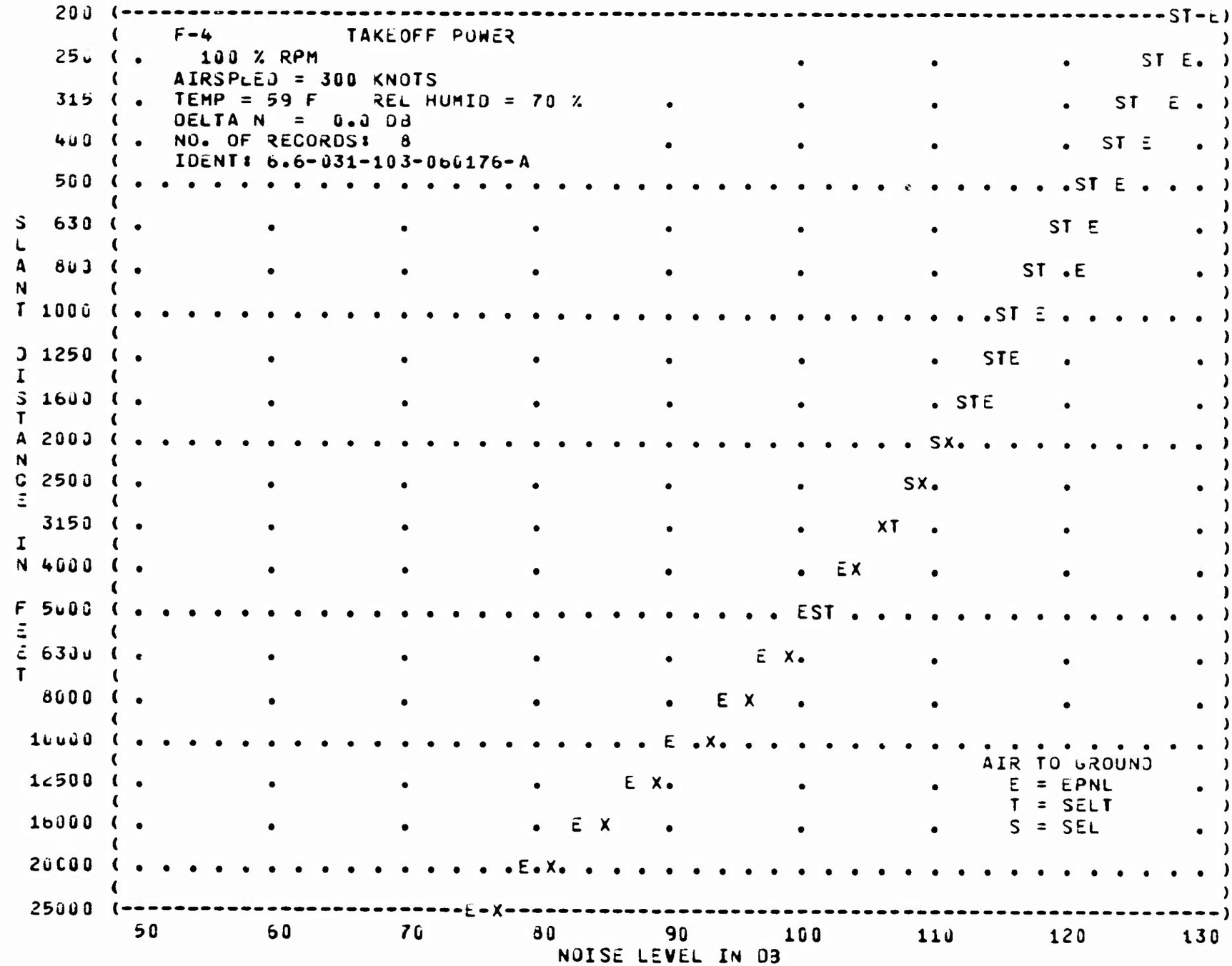

F-4 TAKEOFF POWER
100 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-031-103-060176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-4

OPERATION:
TAKEOFF POWER
100 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 031
OPS CODE: 103
PROFILE VER: A
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PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	86	84	83	94	100	103	100	101	105	104	108	111	112	111	109	110	110	109	110	111	110	112	117	121
250	84	82	81	92	98	101	98	99	103	102	106	109	110	109	107	108	108	107	108	108	108	110	114	118
315	82	80	79	90	96	99	96	97	101	100	103	107	108	107	105	105	106	105	106	106	105	107	111	114
400	80	78	77	88	94	97	94	95	99	98	101	105	106	105	103	103	103	102	103	103	102	104	107	110
500	78	76	75	86	92	95	91	93	97	96	99	103	104	103	100	101	101	100	101	101	99	100	103	105
630	76	74	73	84	90	92	89	90	95	93	97	101	102	101	98	99	99	98	98	98	96	97	99	99
800	74	72	71	82	87	89	86	86	93	91	95	99	99	98	96	96	96	95	95	94	93	93	94	93
1000	72	70	69	79	84	86	83	85	91<	89	93	97	97	96	94	94	93	92	92	91	89	88	88	85
1250	70	68	66	76	81	83	80	82	88	87	91	94	95	94	91	91	91	89	89	87	84	83	81	76
1600	68	65	63	72	77	80	76	78	85	85	89	92	92	91	88	88	88	86	85	82	79	77	73	65
2000	65	61	59	69	74	76	72	74	81	83	86	90	90	89	86	85	84	82	81	77	74	69	63	52
2500	61	58	55	64	69	72	68	70	77	79	84	87	87	86	83	82	81	78	76	71	67	61	52	36
3150	57	53	50	59	65	67	63	65	73	75	80	85	85	83	80	79	77	73	70	64	59	50	37	16
4000	53	48	45	54	59	61	57	59	67	70	77	81	82	80	76	75	72	68	64	56	50	38	20	
5000	48	43	40	49	54	56	53	54	61	65	72	77	78	76	72	70	67	62	56	46	38	22		
6300	43	39	36	44	49	51	48	49	55	59	68	73	74	72	68	65	61	54	47	34	24	4		
8000	41	37	33	42	47	49	45	46	53	56	65	69	70	68	63	59	54	46	36	19	8			
10000	39	34	31	40	45	46	43	44	50	53	61	65	66	63	57	52	46	35	23	1				
12500	36	32	29	38	42	44	40	41	47	49	57	61	60	57	50	44	38	23	6					
16000	34	30	27	35	40	41	37	38	43	46	53	56	55	50	42	34	24	8						
20000	32	28	24	32	37	38	34	34	39	41	48	50	48	42	32	22	9							
25000	29	25	22	30	34	35	30	30	35	36	42	43	40	32	20	8								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-4

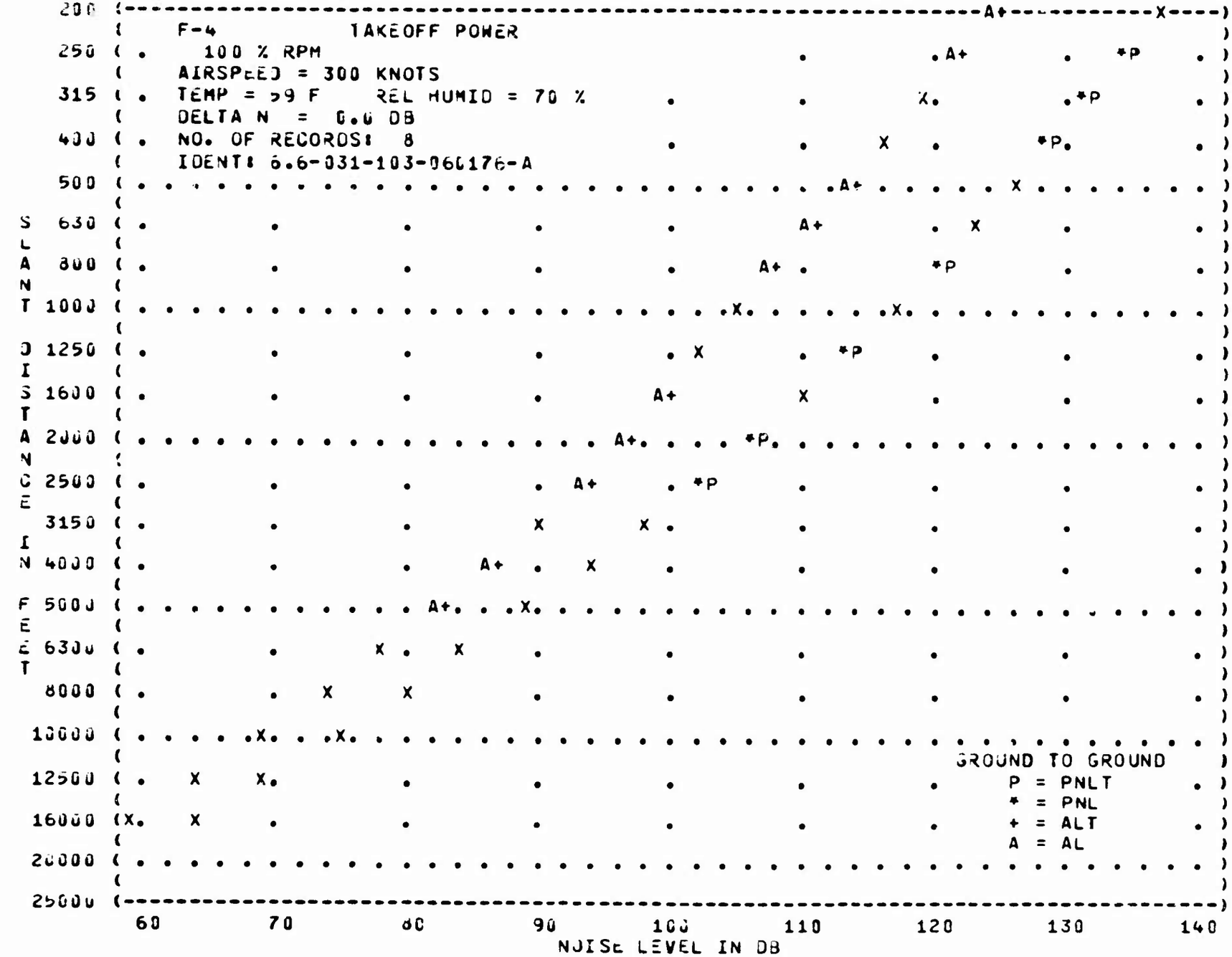
OPERATION:
TAKEOFF POWER
100 % RPM
AIRSPEED = 300 KNOTS

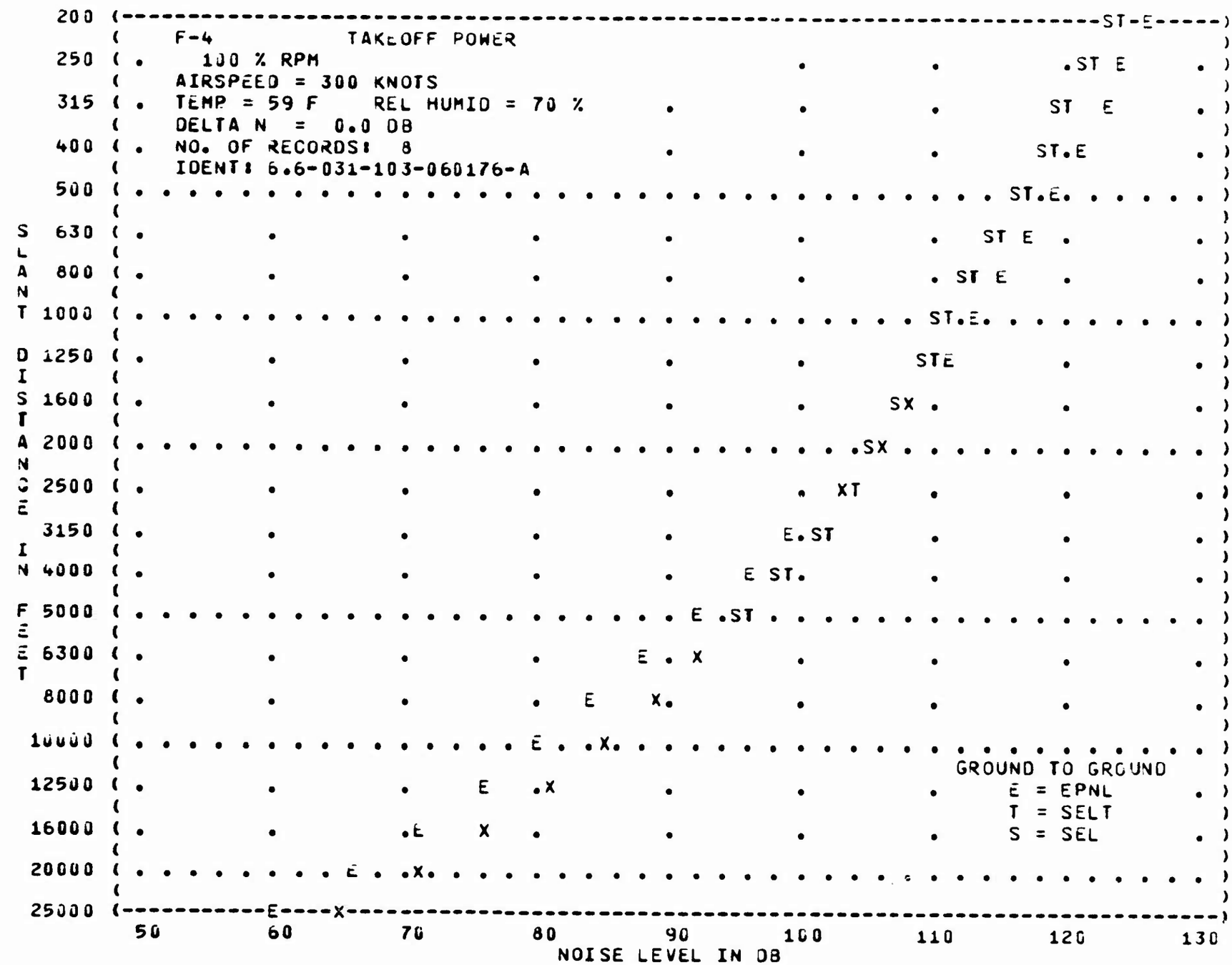
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

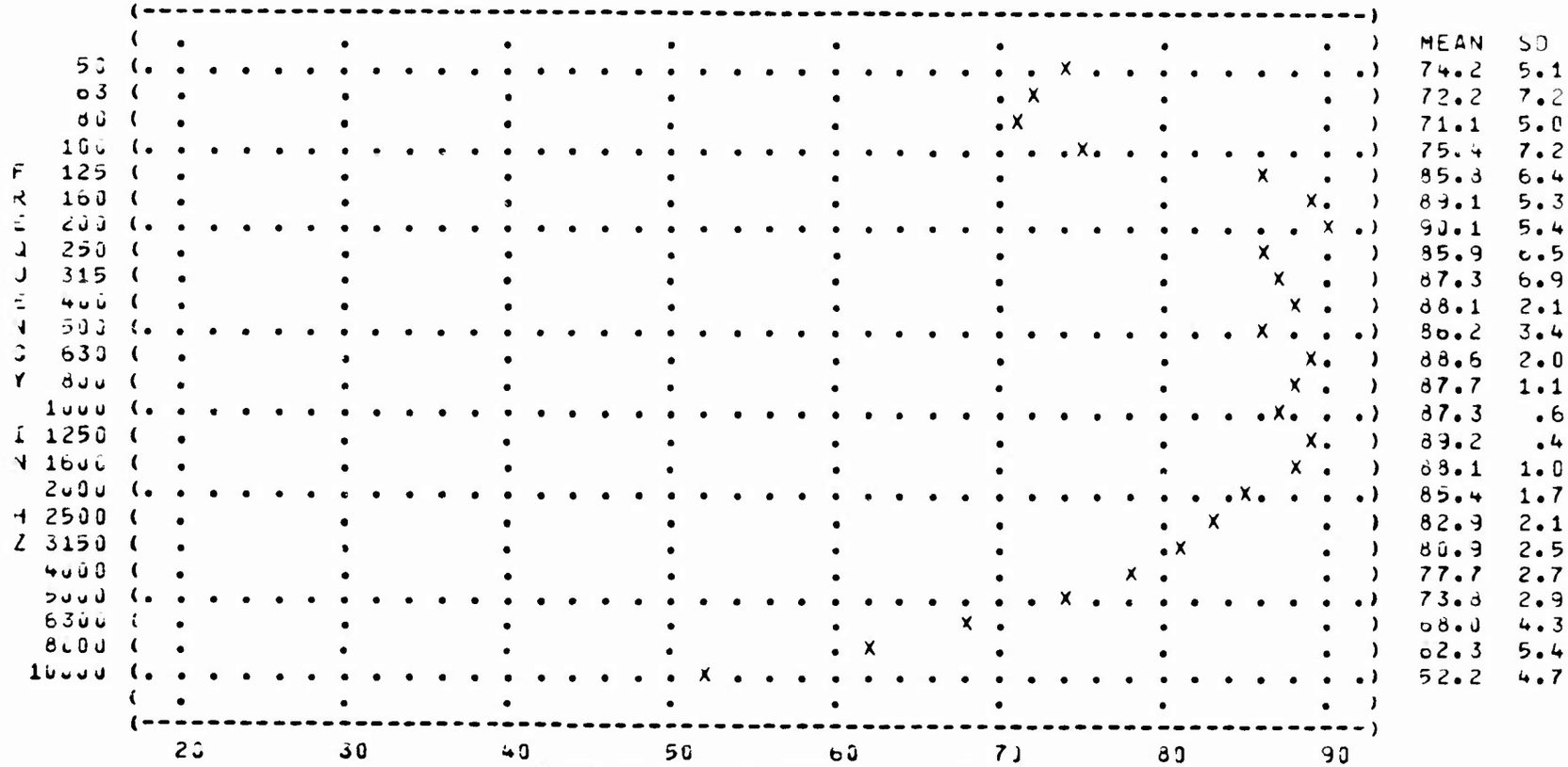
A/C CODE: 031
OPS CODE: 103
PROFILE VER: A
06 JAN 76
PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	124.1	124.6	136.8	137.3	122.7	123.8	126.2
250	121.4	121.9	134.0	134.5	121.1	122.1	124.5
315	118.7	119.2	131.1	131.6	119.3	120.4	122.5
400	115.9	116.4	128.5	129.0	117.5	118.6	120.9
500	113.1	113.6	125.8	126.3	115.7	116.7	119.3
630	110.2	110.7	123.0	123.5	113.9	114.9	117.4
800	107.4	107.9	120.0	120.5	112.1	113.1	115.4
1000	104.7	105.2	116.8	117.3	110.3	111.3	113.3
1250	101.9	102.4	113.4	113.9	108.5	109.6	110.9
1600	99.1	99.6	109.8	110.3	106.7	107.7	108.2
2000	96.2	96.7	106.1	106.6	104.8	105.8	105.5
2500	93.1	93.6	102.1	102.6	102.8	103.8	102.6
3150	89.9	90.5	97.9	98.4	100.6	101.6	99.3
4000	86.4	86.8	93.7	94.1	98.1	98.9	96.0
5000	82.5	82.8	89.2	89.5	95.1	95.7	92.2
6300	78.1	78.3	84.2	84.4	91.8	92.2	88.0
8000	73.9	74.0	79.6	79.7	88.5	88.8	84.3
10000	69.3	69.3	74.7	74.7	84.9	84.9	80.1
12500	64.2	64.2	69.5	69.5	80.9	80.9	75.9
16000	58.6	58.6	63.8	63.8	76.2	76.2	71.2
20000	52.3	52.3	57.3	57.3	70.9	70.9	65.8
25000	45.2	45.2	50.2	50.2	64.9	64.9	59.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-4 TAKEOFF POWER
100 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-031-103-060176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-4 TAKEOFF POWER
100 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-031-103-060176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-4 APPROACH POWER 87 % RPM

AIRSPEED = 190 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 3

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-031-105-060176

PNLT = 109.1 PNDB
PNL = 108.5 PNDB
ALT = 97.5 DBA
AL = 97.0 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-4

OPERATION:
APPROACH POWER
87 % RPM
AIRSPEED = 190 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 031
OPS CODE: 105
PROFILE VER: A
06 JAN 76
PAGE H3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	86	86	85	89	100	103	104	100	102	103	101	103	103	103	105	104	102	100	100	98	96	93	92	90
250	86	84	83	87	98	101	102	98	100	101	99	101	101	101	103	102	100	98	97	96	93	90	89	86
315	84	82	81	85	96	99	100	96	98	99	97	99	99	98	101	100	98	96	95	93	90	87	86	82
400	82	80	79	83	94	97	98	94	96	97	95	97	96	96	98	98	95	93	92	91	88	84	82	78
500	80	78	77	81	92	95	96	92	94	94	93	95	94	94	96	95	93	91	90	88	85	81	78	73
630	78	76	75	79	90	93	94	90	91	92	90	93	92	92	94	93	91	88	87	85	81	77	74	67
800	76	74	73	77	88	91	92	88	89	90	88	91	90	90	92	91	88	86	84	81	78	73	68	60
1000	74	72	71	75	86<	89	90	86	87	88	86	89	88	87	89	88	85	83	81	78	74	68	62	52
1250	72	70	69	73	84	87	88	84	85	86	84	86	85	85	87	85	83	80	77	74	69	62	55	43
1600	70	68	67	71	82	85	86	82	83	84	82	84	83	82	84	83	79	76	73	69	64	56	47	31
2000	68	66	65	69	80	83	84	80	81	82	79	82	80	80	81	80	76	73	69	64	58	48	36	17
2500	66	64	63	67	78	81	82	77	79	79	77	79	78	77	78	76	72	68	64	57	51	39	24	
3150	64	62	61	65	75	79	79	75	76	77	74	76	75	74	75	73	68	63	58	50	43	28	9	
4000	62	60	59	63	73	76	77	73	74	74	72	74	72	71	71	68	64	58	51	41	33	15		
5000	60	58	57	61	71	74	75	70	71	72	69	71	69	67	67	64	58	51	43	31	21			
6300	58	56	55	59	69	72	72	68	69	69	66	67	65	63	63	58	52	44	34	18	6			
8000	56	54	52	56	66	69	70	65	66	66	63	64	61	58	57	52	45	35	22	2				
10000	54	51	50	54	64	67	67	62	63	62	59	60	56	53	51	45	36	24	8					
12500	51	49	48	52	62	64	64	59	60	59	55	55	51	47	44	36	25	10						
16000	49	47	45	49	59	61	61	56	56	55	50	50	45	40	35	26	12							
20000	47	44	43	46	56	58	58	53	52	50	45	44	38	31	25	13								
25000	44	42	40	44	53	55	55	49	48	45	39	37	29	21	13									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-4

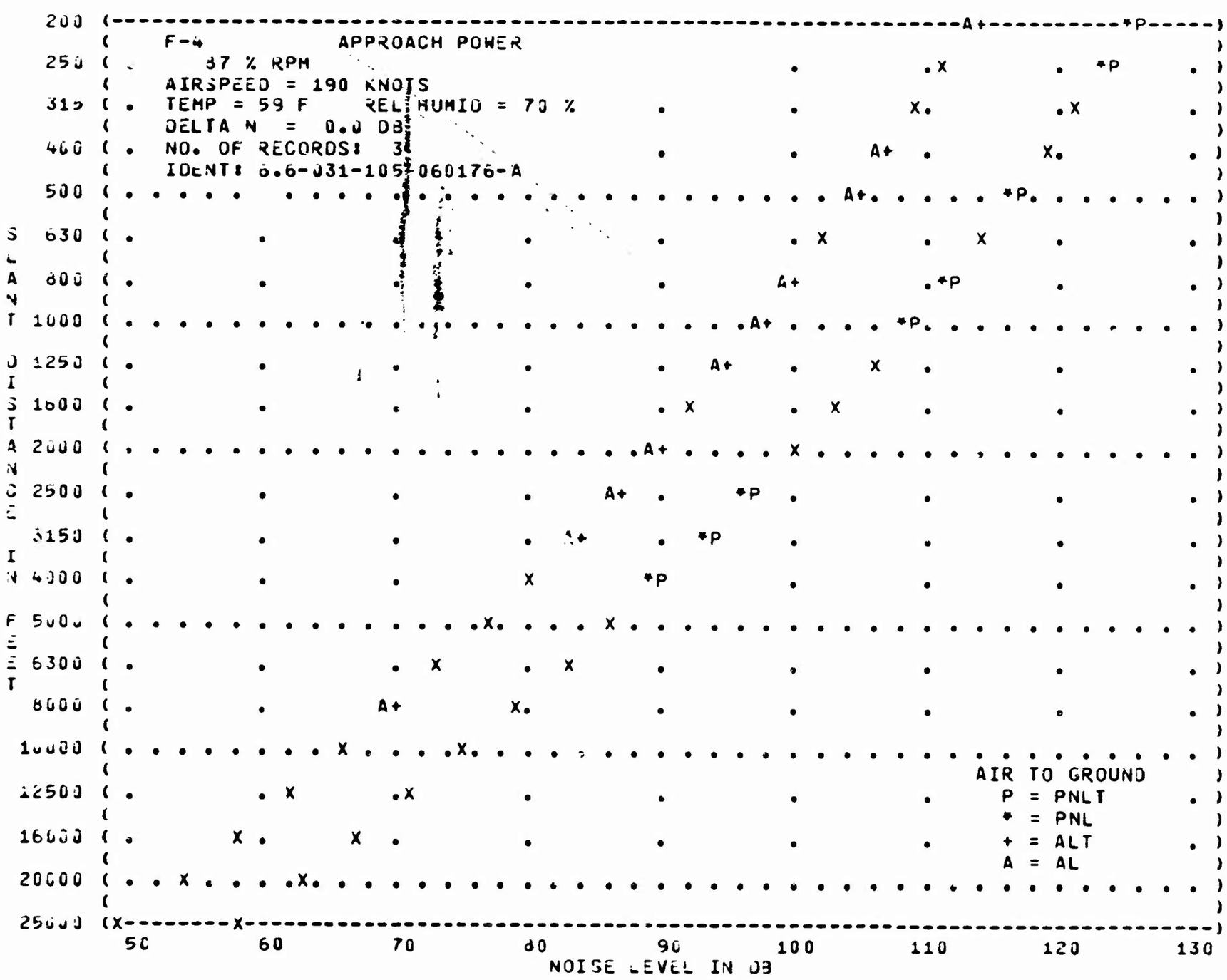
OPERATION: APPROACH POWER, 87 % RPM, AIRSPEED = 190 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 031
OPS CODE: 105
PROFILE VER: A
06 JAN 76
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	113.0	113.0	125.4	126.0	113.7	114.8	117.3
250	110.8	111.4	123.2	123.8	112.5	113.0	116.1
315	108.6	109.2	120.9	121.5	111.4	112.5	114.7
400	106.4	107.0	118.5	119.1	110.1	111.2	113.4
500	104.1	104.7	116.2	116.8	108.9	110.0	112.0
630	101.8	102.4	113.7	114.3	107.5	108.6	110.6
800	99.4	100.0	111.1	111.7	105.1	107.2	109.0
1000	97.0	97.5	108.5	109.1	104.7	105.8	107.4
1250	94.4	95.0	105.7	106.3	103.1	104.2	105.6
1600	91.7	92.3	102.8	103.4	101.5	102.6	103.7
2000	89.0	89.6	99.7	100.3	99.7	100.8	101.6
2500	86.1	86.7	96.5	97.1	97.8	98.9	99.3
3150	83.1	83.7	93.0	93.6	95.3	96.9	96.9
4000	79.9	80.4	89.3	89.8	93.6	94.5	94.0
5000	76.6	76.9	86.0	86.4	91.3	91.9	91.5
6300	73.1	73.3	82.6	82.8	88.8	89.2	88.8
8000	69.5	69.6	79.0	79.1	86.2	86.4	86.0
10000	65.7	65.7	75.2	75.2	83.4	83.4	83.0
12500	61.8	61.8	71.3	71.3	80.5	80.5	80.1
16000	57.7	57.7	67.1	67.1	77.5	77.5	76.9
20000	53.6	53.6	62.6	62.6	74.3	74.3	73.4
25000	49.2	49.2	57.8	57.8	70.9	70.9	69.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-4
APPROACH POWER
87 % RPM
AIRSPEED = 190 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 38
IDENT: 6.6-031-105-060176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

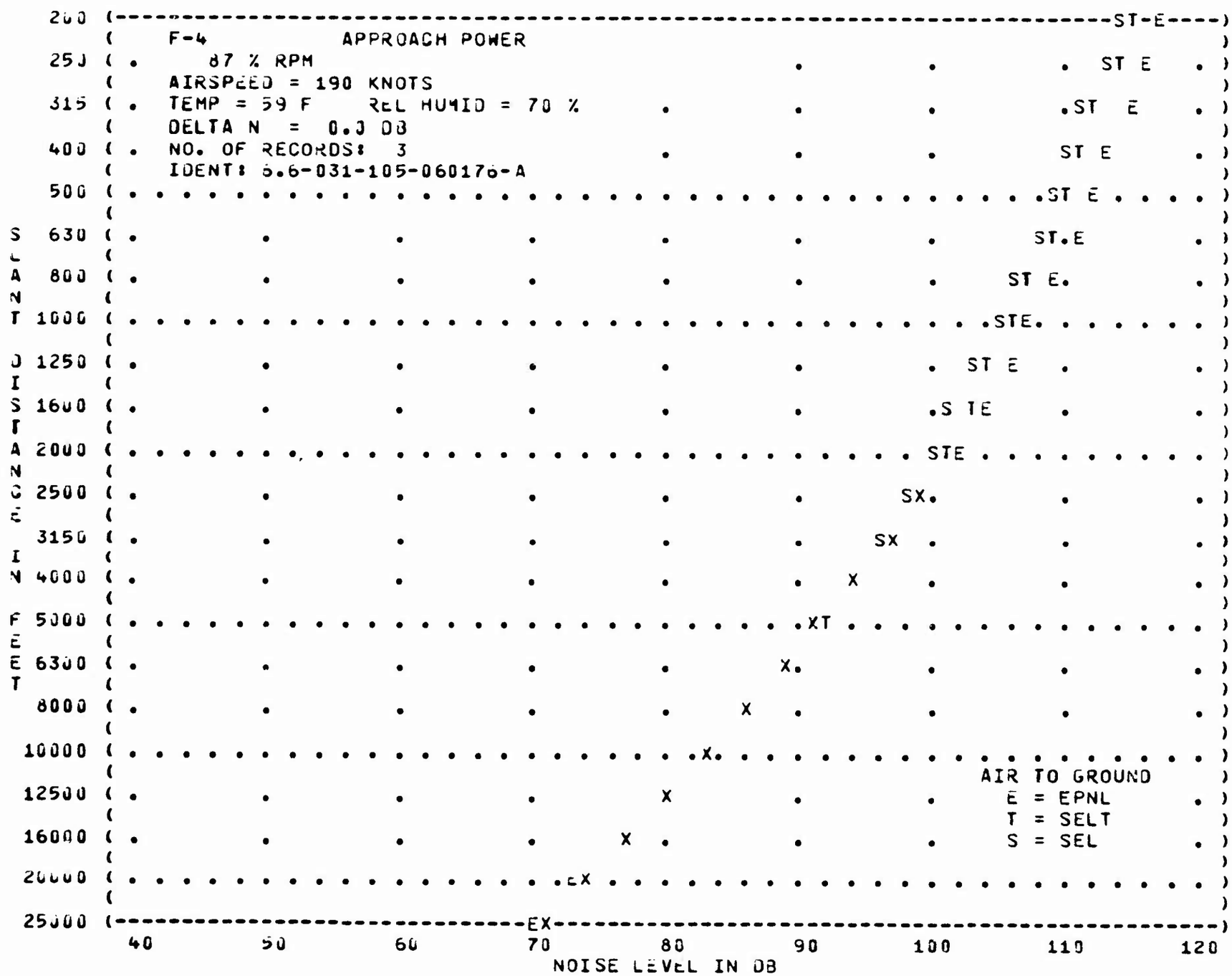

F-4 APPROACH POWER
87 % RPM
AIRSPEED = 190 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 3
IDENT: 6.6-031-105-060176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-4

OPERATION:
APPROACH POWER
87 % RPM
AIRSPEED = 190 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
A/C CODE: 031
OPS CODE: 105
PROFILE VER: A
06 JAN 76
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																						
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	83	81	80	84	95	98	99	95	97	98	96	95	98	98	100	99	97	95	95	93	91	88	87	85
250	81	79	78	82	93	96	97	93	95	96	94	96	96	96	98	97	95	93	92	91	88	85	84	81
315	79	77	76	80	91	94	95	91	93	94	92	94	94	93	96	95	93	91	90	88	85	82	81	77
400	77	75	74	78	89	92	93	89	91	92	90	92	91	91	93	93	90	88	87	86	83	79	77	73
500	75	73	72	76	87	90	91	87	89	89	88	90	89	89	91	90	88	86	85	83	80	76	73	68
630	73	71	70	74	84	87	88	84	86	87	85	86	87	87	89	88	86	83	82	80	76	72	69	62
800	71	69	68	72	81	84	85	82	84	85	83	86	85	85	87	86	83	81	79	76	73	68	63	55
1000	69	67	66	69	79<	81	82	79	82	83	81	84	83	82	84	83	80	78	76	73	69	63	57	47
1250	67	65	63	66	75	78	79	75	79	81	79	81	80	80	82	80	78	75	72	69	64	57	50	38
1600	65	62	60	63	72	75	76	72	76	79	77	79	78	77	79	78	74	71	68	64	59	51	42	26
2000	62	58	56	59	68	71	72	68	72	77	74	77	75	75	78	75	71	68	64	59	53	43	31	12
2500	59	54	52	54	64	67	67	64	68	73	72	74	73	72	73	71	67	63	59	52	46	34	19	
3150	55	50	47	50	59	62	62	59	64	69	68	71	70	69	70	68	63	58	53	45	38	23	4	
4000	50	45	42	44	53	56	57	53	59	64	65	68	67	66	66	63	59	53	46	36	28	10		
5000	45	40	37	39	48	51	52	48	53	58	60	64	63	62	62	59	53	46	38	26	16			
6300	40	36	33	35	44	46	47	43	47	53	56	59	59	58	58	53	47	39	29	13	1			
8000	38	34	30	32	41	44	44	40	44	50	53	56	55	53	52	47	40	30	17					
10000	36	31	28	30	39	41	42	37	41	46	49	52	50	48	46	43	31	19	3					
12500	33	29	26	28	37	39	39	34	38	43	45	47	45	42	39	31	20	5						
16000	31	27	23	25	34	36	36	31	34	39	41	42	39	35	30	21	7							
20000	29	24	21	22	31	33	33	28	30	34	35	36	32	26	20	8								
25000	26	22	18	20	28	30	29	24	26	29	29	29	23	16	8									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-4

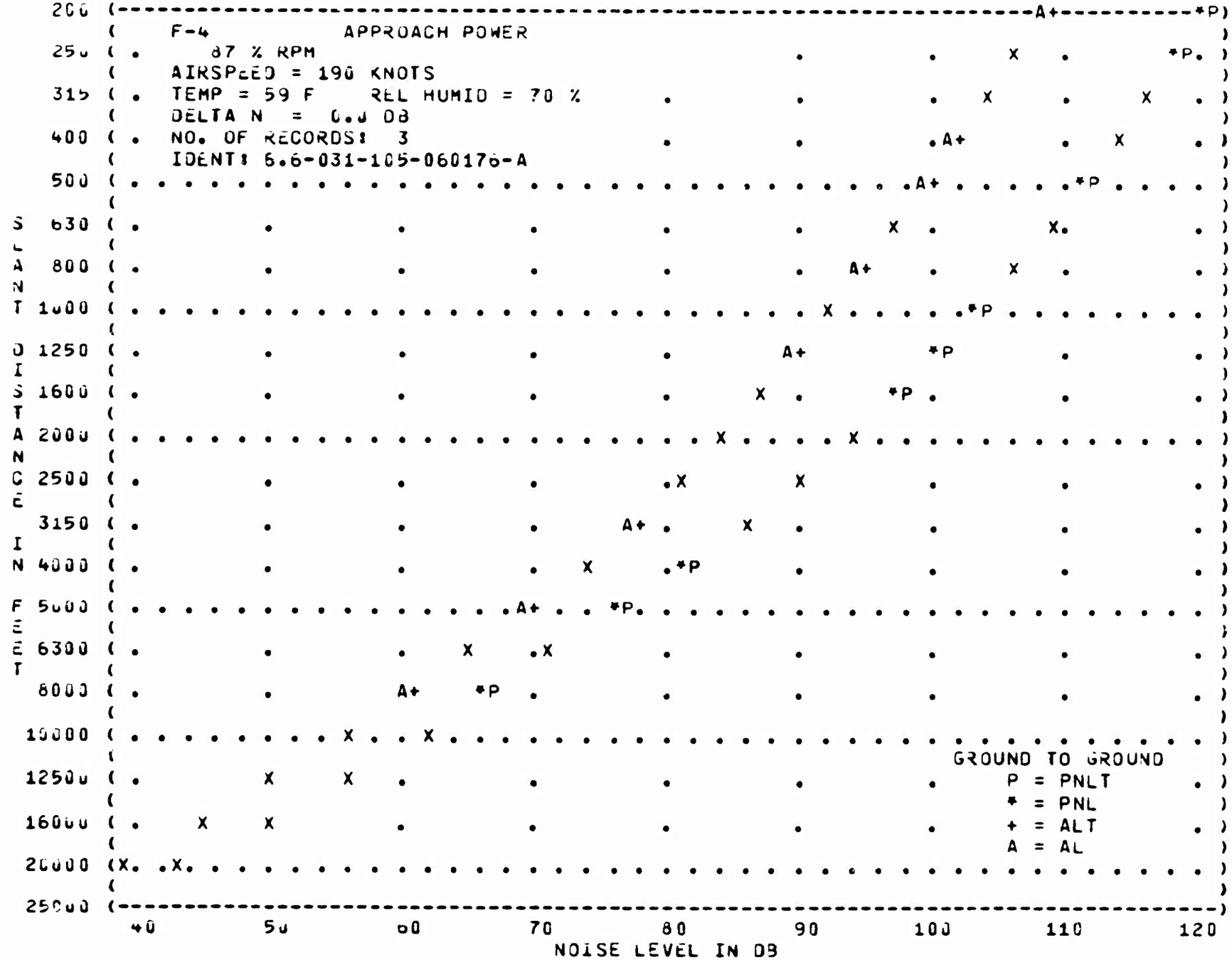
OPERATION:
APPROACH POWER
87 % RPM
AIRSPEED = 190 KNOTS

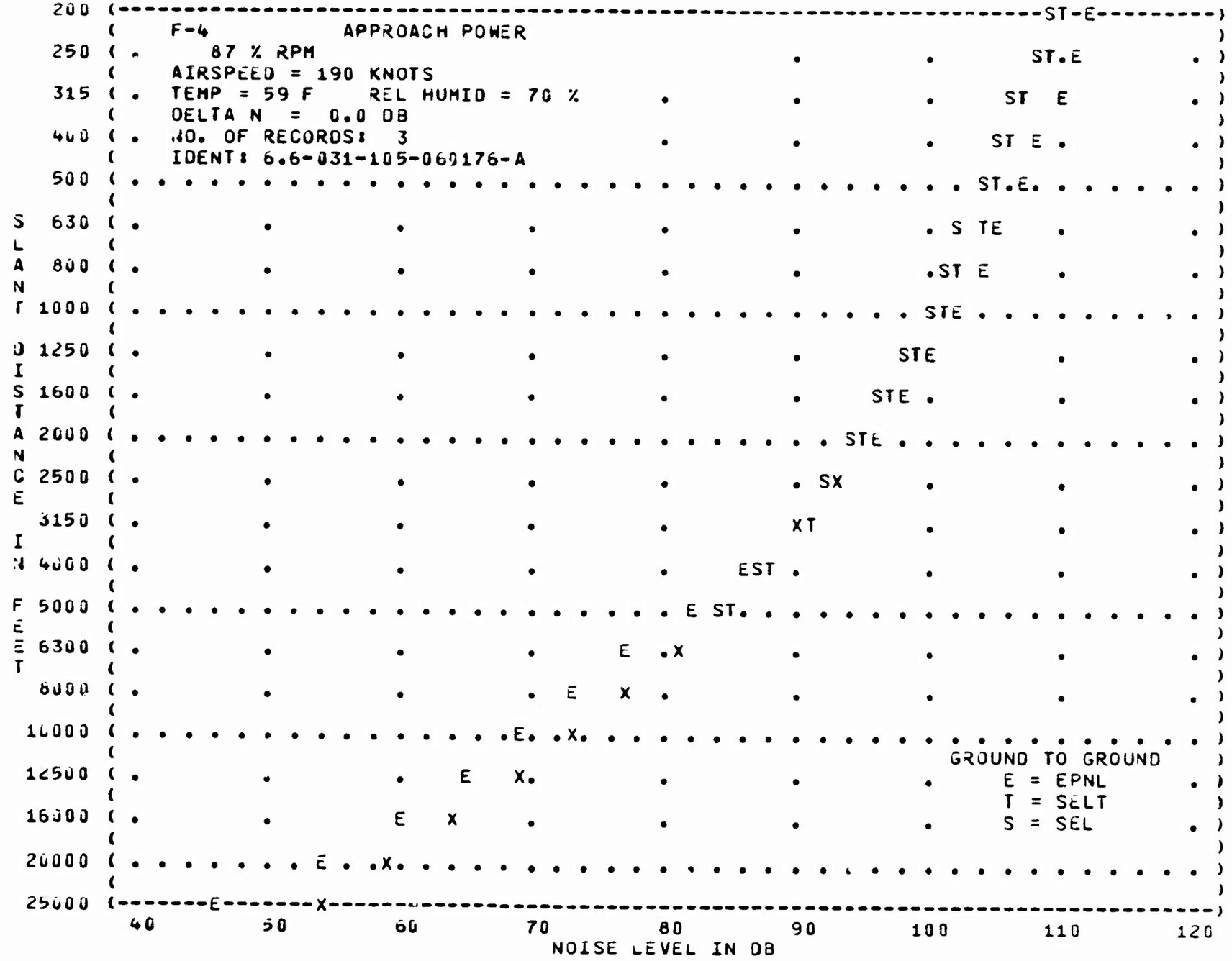
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

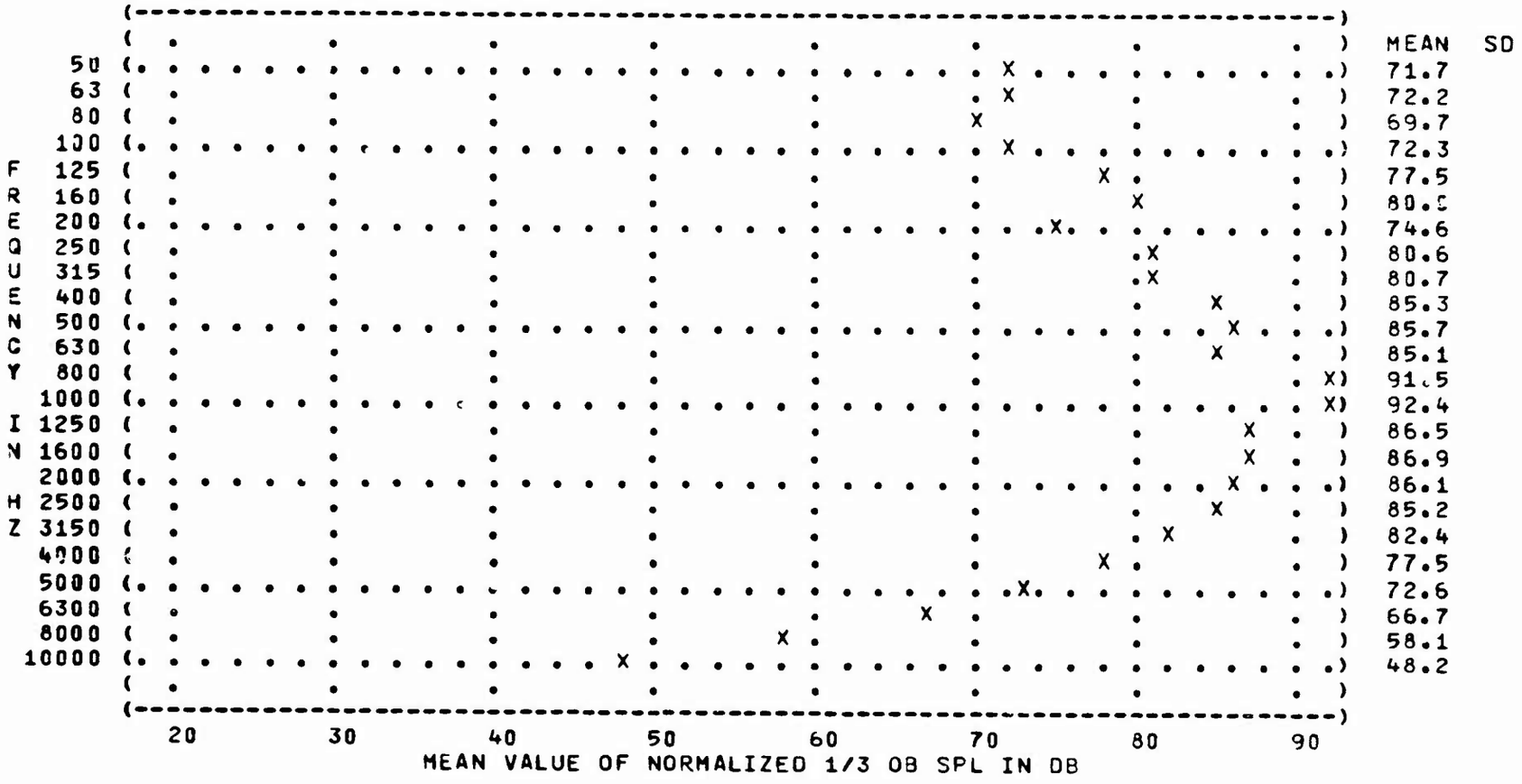
A/C CODE: 031
OPS CODE: 105
PROFILE VER: A
06 JAN 76
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	108.0	108.5	120.4	121.0	108.7	109.8	112.3
250	105.8	106.4	118.2	118.7	107.5	108.6	111.0
315	103.6	104.2	115.8	116.4	106.4	107.4	109.7
400	101.4	102.0	113.5	114.1	105.1	106.2	108.3
500	99.1	99.7	111.1	111.6	103.8	104.9	106.9
630	96.8	97.3	108.6	109.1	102.5	103.6	105.4
800	94.4	94.9	105.9	106.5	101.1	102.1	103.8
1000	91.9	92.4	103.2	103.7	99.6	100.6	102.0
1250	89.3	89.8	100.2	100.8	98.0	99.0	100.1
1600	86.6	87.1	97.1	97.6	96.3	97.3	97.9
2000	83.7	84.3	93.7	94.2	94.4	95.5	95.5
2500	80.6	81.2	89.9	90.5	92.3	93.4	92.8
3150	77.3	77.9	85.8	86.4	90.0	91.1	89.7
4000	73.6	74.1	81.3	81.7	87.3	88.2	85.9
5000	69.4	69.8	76.3	76.6	84.2	84.8	81.7
6300	64.9	65.1	71.0	71.2	80.6	81.0	77.2
8000	60.5	60.6	66.4	66.5	77.2	77.4	73.4
10000	55.6	55.6	61.6	61.6	73.4	73.4	69.4
12500	50.4	50.4	56.3	56.3	69.1	69.1	65.1
16000	44.7	44.7	50.3	50.3	64.5	64.5	60.1
20000	38.6	38.6	43.2	43.2	59.3	59.3	53.9
25000	32.0	32.0	34.5	34.5	53.7	53.7	46.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-4 APPROACH POWER
87 % RPM
AIRSPEED = 190 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 3
IDENT: 6.6-031-105-060176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB


F-4 APPROACH POWER
87 % RPM
AIRSPEED = 190 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 3
IDENT: 6.6-031-105-060176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-4 CRUISE POWER 92 % RPM

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-031-104-300376

PNLT = 109.4 PNDB
PNL = 107.9 PNDB
ALT = 99.1 DBA
AL = 97.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-4

OPERATION:
CRUISE POWER
92 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 031
OPS CODE: 104
PROFILE VER: A
30 MAR 76
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	86	86	84	86	92	94	89	95	95	100	100	100	106	108	102	103	103	103	101	98	94	91	88	85
250	84	84	82	84	90	92	87	93	93	98	98	98	104	106	100	101	100	100	99	95	92	89	85	81
315	82	82	80	82	88	90	85	91	91	96	96	96	102	103	98	99	98	98	96	93	89	86	81	78
400	80	80	78	80	86	88	83	89	89	94	94	94	100	101	96	96	96	96	94	90	86	83	78	73
500	78	78	76	78	84	86	81	87	87	92	92	92	98	99	93	94	94	93	91	87	83	79	74	68
630	76	76	74	76	82	84	79	85	85	90	90	89	96	97	91	92	91	91	88	84	80	76	69	63
800	74	74	72	74	80	82	77	83	83	87	88	87	94	95	89	89	89	88	86	81	77	71	64	56
1000	72	72	70	72	78	80	75	81	81	85	86	85	92	92<	87	87	86	85	82	78	73	67	58	48
1250	70	70	68	70	75	78	73	79	79	83	84	83	89	90	84	84	83	82	79	73	68	61	51	39
1600	68	68	66	68	73	76	70	76	76	81	81	81	87	88	81	81	80	79	75	69	63	55	43	28
2000	66	66	64	66	71	74	68	74	74	79	79	78	84	85	79	78	77	75	71	64	57	47	33	14
2500	64	64	62	64	69	72	66	72	72	76	77	76	82	82	76	75	73	71	66	57	50	39	21	
3150	62	62	59	62	67	69	64	70	70	74	74	73	79	79	72	72	69	66	60	50	42	28	6	
4000	59	60	57	60	65	67	62	67	67	72	71	70	76	76	69	67	65	61	54	42	33	15		
5000	57	58	55	58	63	65	59	65	65	69	69	67	73	72	65	63	59	54	46	32	21			
6300	55	56	53	56	61	63	57	63	62	66	66	64	69	68	60	58	53	47	36	19	7			
8000	53	54	51	53	58	60	55	60	59	63	62	60	65	64	55	52	46	38	25	4				
10000	51	51	49	51	56	58	52	57	56	60	59	56	61	59	49	45	38	28	11					
12500	49	49	46	49	53	55	49	54	53	56	55	52	55	53	42	36	27	15						
16000	47	47	44	46	51	52	46	51	50	52	50	47	49	46	34	25	15							
20000	44	44	42	44	48	49	43	48	46	48	45	41	42	37	24	14								
25000	42	42	39	41	45	46	39	44	41	43	39	34	34	28	12									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-4

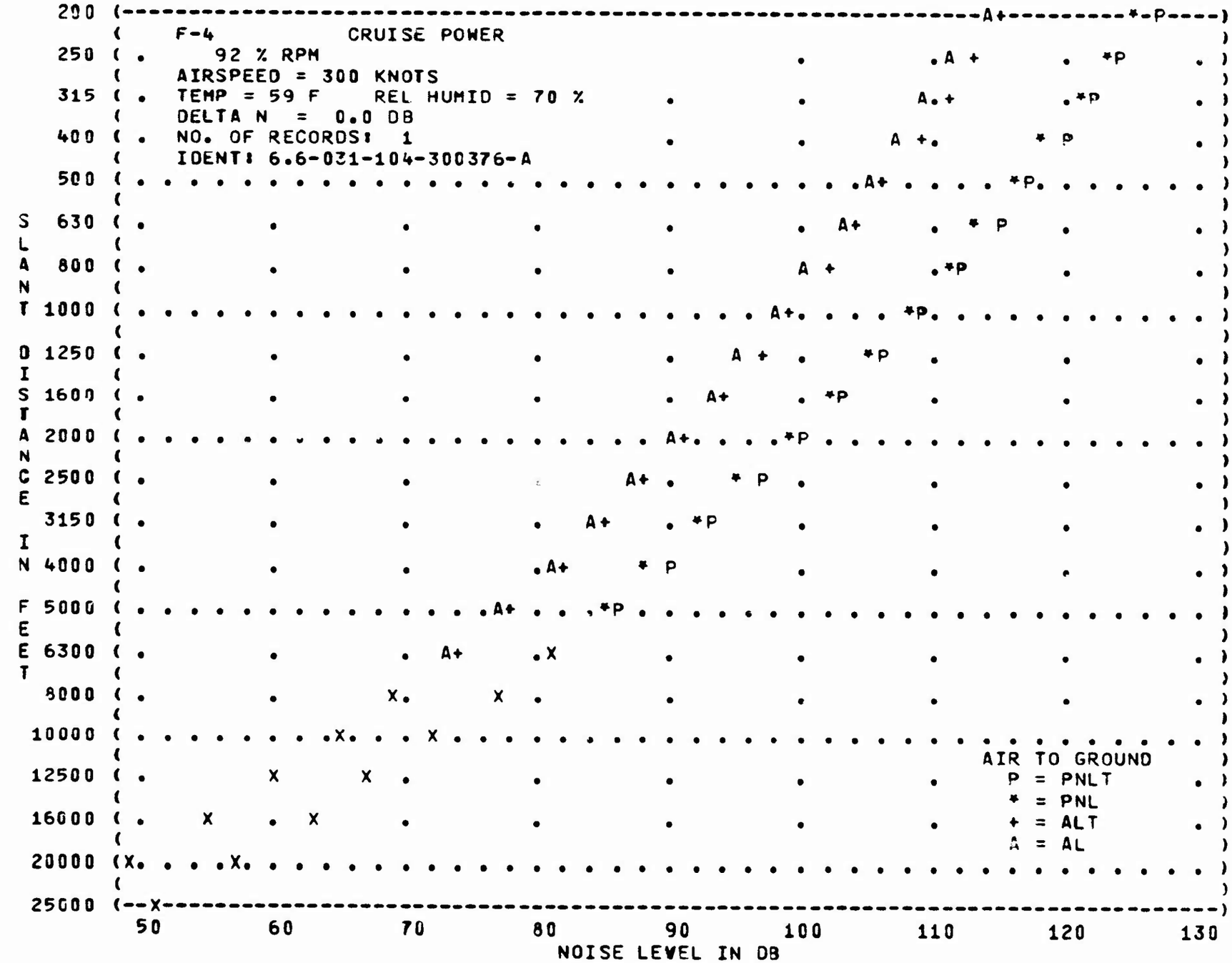
OPERATION:
CRUISE POWER
92 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 031
OPS CODE: 104
PROFILE VER: A
30 MAR 76
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	113.6	115.1	125.2	126.6	111.3	113.3	114.9
250	111.5	112.9	122.9	124.4	110.2	112.2	113.7
315	109.3	110.8	120.6	122.1	109.0	111.0	112.4
400	107.1	108.5	118.3	119.7	107.8	109.8	111.1
500	104.9	106.3	115.9	117.3	106.5	108.5	109.6
630	102.5	104.0	113.3	114.8	105.2	107.2	108.1
800	100.2	101.6	110.7	112.1	103.9	105.9	106.5
1000	97.7	99.1	107.9	109.4	102.4	104.4	104.7
1250	95.2	96.6	105.0	106.4	100.9	102.9	102.8
1600	92.5	94.0	101.9	103.3	99.2	101.2	100.6
2000	89.8	91.2	98.5	100.0	97.4	99.4	98.3
2500	86.8	88.3	95.4	96.8	95.5	97.5	96.1
3150	83.8	85.2	92.0	93.5	93.5	95.5	93.8
4000	80.5	81.7	88.5	89.6	91.2	92.8	90.9
5000	77.0	77.9	84.8	85.7	88.7	89.9	87.8
6300	73.3	73.8	80.9	81.4	86.0	86.8	84.4
8000	69.2	69.5	76.6	76.9	82.9	83.3	80.8
10000	64.8	64.8	72.1	72.1	79.5	79.5	76.8
12500	60.0	60.0	67.4	67.4	75.7	75.7	73.1
16000	54.9	54.9	62.6	62.6	71.6	71.6	69.4
20000	49.5	49.5	57.4	57.4	67.2	67.2	65.2
25000	43.9	43.9	51.5	51.5	62.6	62.6	60.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-4 CRUISE POWER
92 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-031-104-300376-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

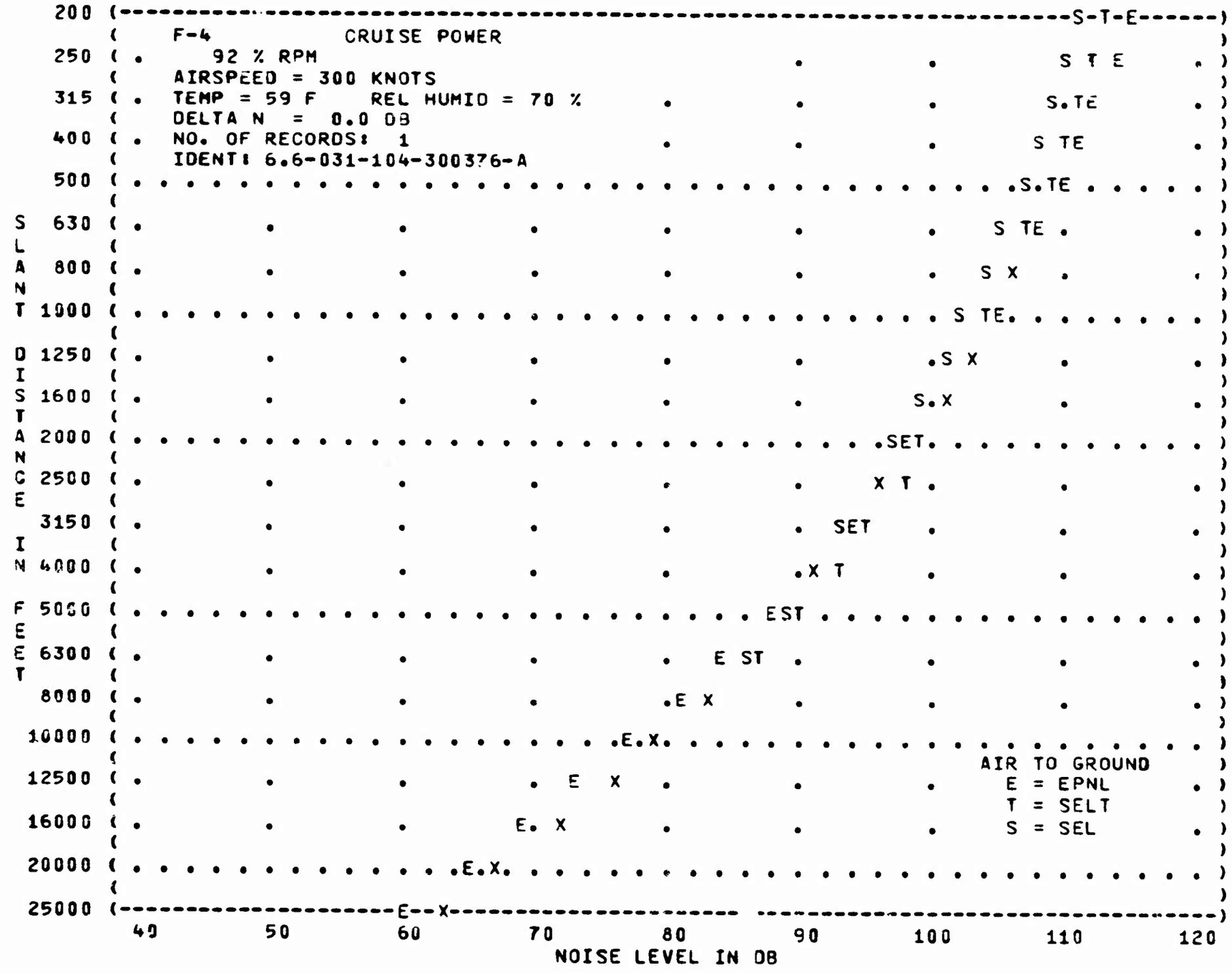

F-4 CRUISE POWER
92 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-031-104-300376-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-4

OPERATION: CRUISE POWER 92 % RPM; AIRSPEED = 300 KNOTS

METEOROLOGY: TEMP = 59 F; REL HUMID = 70 %; DELTA N = 0.0 DB

A/C CODE: 031
OPS CODE: 104
PROFILE VER: A
30 MAR 76
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	81	81	79	81	87	89	84	90	90	95	95	95	101	103	97	98	98	98	96	93	89	86	83	80
250	79	79	77	79	85	87	82	88	88	93	93	93	99	101	95	96	95	95	94	90	87	84	80	76
315	77	77	75	77	83	85	80	86	86	91	91	91	97	98	93	94	93	93	91	88	84	81	76	73
400	75	75	73	75	81	83	78	84	84	89	89	89	95	96	91	91	91	91	89	85	81	78	73	68
500	73	73	71	73	78	80	75	82	82	87	87	87	93	94	88	89	89	88	86	82	78	74	69	63
630	71	71	69	71	76	78	73	79	80	85	85	84	91	92	86	87	86	86	83	79	75	71	64	58
800	69	69	67	69	73	75	70	76	78	82	83	82	89	90	84	84	84	83	81	76	72	66	59	51
1000	67	67	65	66	70	72	67	73	76	80	81	80	87	87<	82	82	81	80	77	73	68	62	53	43
1250	65	65	62	63	67	69	64	70	73	78	79	78	84	85	79	79	78	77	74	68	63	56	46	34
1600	63	62	58	59	64	66	60	67	69	76	76	76	82	83	76	76	75	74	70	64	58	50	38	23
2000	60	58	55	56	60	62	56	63	66	74	74	73	79	80	74	73	72	70	66	59	52	42	28	9
2500	56	54	50	51	56	57	52	58	62	70	71	71	77	77	71	70	68	66	61	52	45	34	16	
3150	52	50	46	47	51	53	47	53	57	66	68	68	74	74	67	67	64	61	55	45	37	23	1	
4000	48	45	40	41	45	47	41	48	52	61	64	65	71	71	64	62	60	56	49	37	28	10		
5000	42	40	36	36	40	42	36	43	46	56	60	60	67	67	60	58	54	49	41	27	16			
6300	37	36	31	32	36	37	31	38	40	50	56	56	63	63	55	53	48	42	31	14	2			
8000	35	34	29	29	33	35	29	35	37	47	52	52	59	59	50	47	41	33	20					
10000	33	31	27	27	31	32	26	32	34	44	49	48	55	54	44	40	33	23	6					
12500	31	29	24	25	28	30	24	29	31	40	45	44	49	48	37	31	22	10						
16000	29	27	22	22	26	27	21	26	28	36	40	39	43	41	29	21	10							
20000	26	24	20	20	23	24	17	23	24	32	35	33	36	32	19	9								
25000	24	22	17	17	20	21	14	19	19	27	29	26	28	23	7									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-4

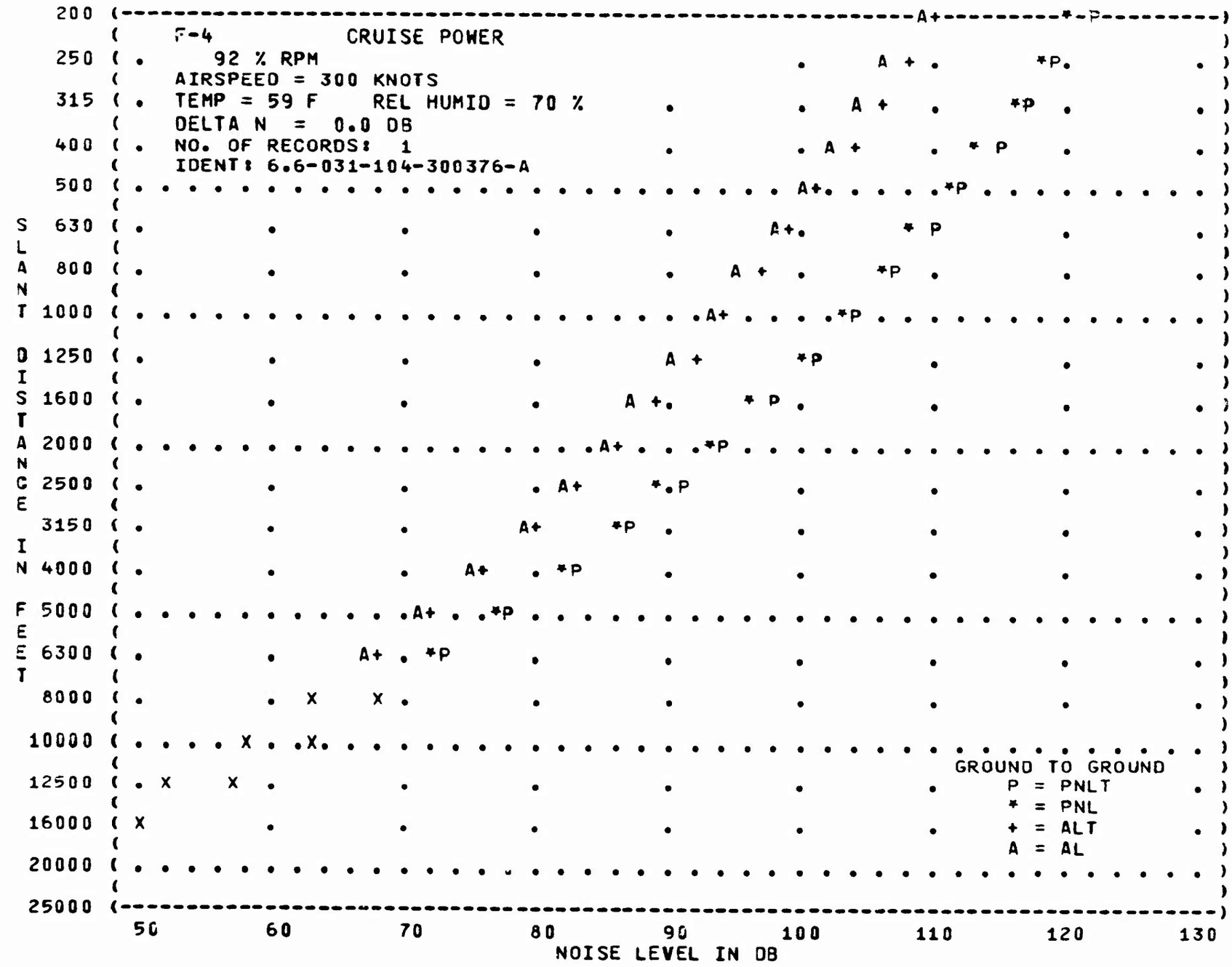
OPERATION: CRUISE POWER, 92 % RPM, AIRSPEED = 300 KNOTS

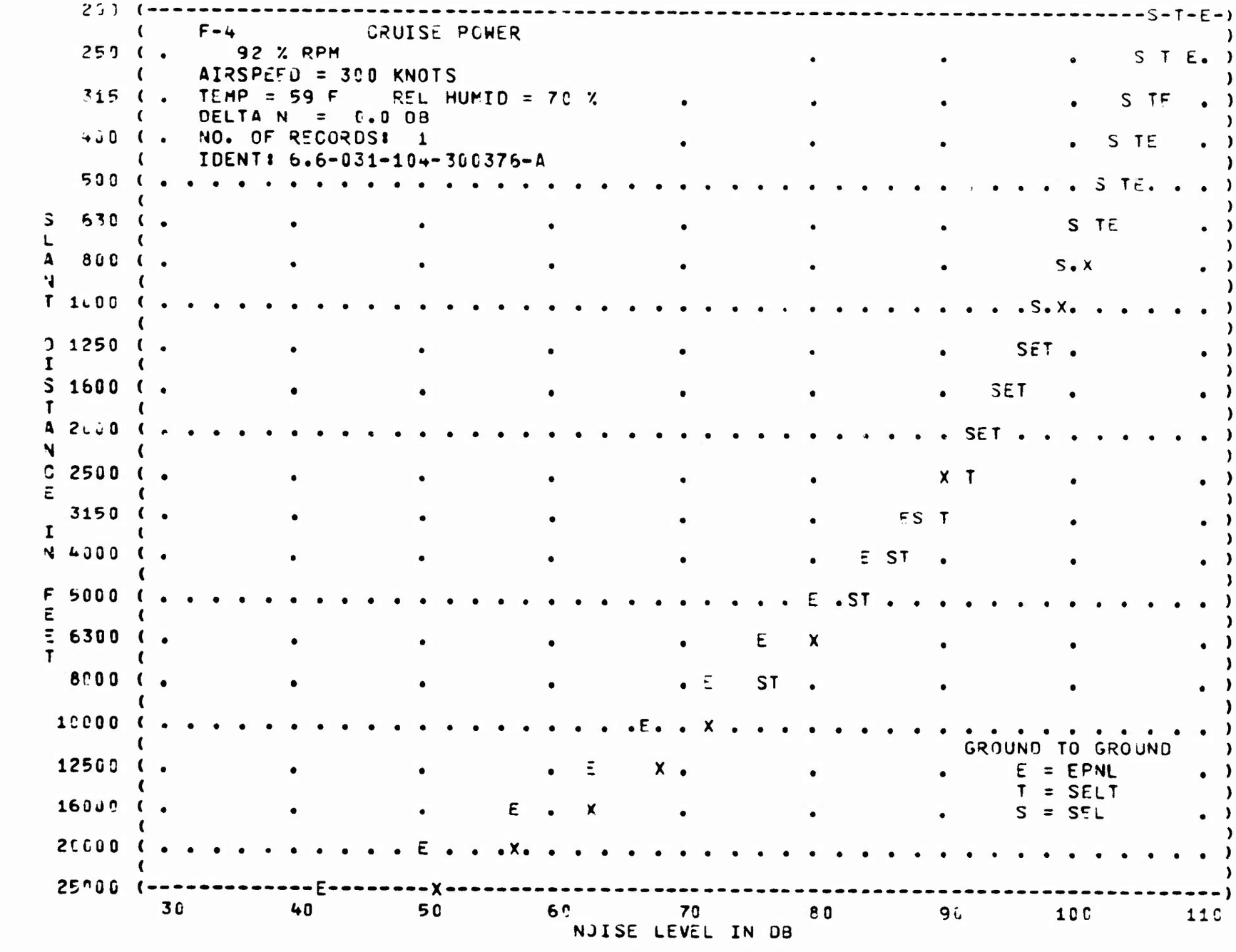
METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 031
CPS CODE: 104
PROFILE VER: A
30 MAR 76
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	108.6	110.1	120.1	121.6	106.3	108.3	109.9
250	106.5	107.9	117.9	119.3	105.2	107.2	108.7
315	104.3	105.8	115.6	117.1	104.0	106.0	107.4
400	102.1	103.5	113.3	114.7	102.8	104.8	106.0
500	99.9	101.3	110.8	112.3	101.5	103.5	104.6
630	97.5	99.0	108.3	109.7	100.2	102.2	103.0
800	95.2	96.6	105.6	107.0	98.8	100.8	101.3
1000	92.7	94.1	102.7	104.2	97.4	99.4	99.5
1250	90.2	91.6	99.7	101.1	95.8	97.8	97.4
1600	87.5	88.9	96.4	97.8	94.2	96.2	95.2
2000	84.7	86.2	92.9	94.3	92.4	94.4	92.6
2500	81.8	83.2	89.4	90.9	90.4	92.4	90.2
3150	78.6	80.0	85.7	87.1	88.3	90.3	87.5
4000	75.1	76.3	81.6	82.8	85.8	87.4	84.0
5000	71.3	72.1	77.2	78.0	83.0	84.2	80.1
6300	67.0	67.6	72.4	72.9	79.7	80.5	75.9
8000	62.6	62.9	67.6	67.9	76.3	76.7	71.8
10000	57.8	57.8	62.6	62.6	72.5	72.5	67.4
12500	52.4	52.4	56.8	56.8	68.1	68.1	62.6
16000	46.3	46.3	50.3	50.3	63.0	63.0	57.1
20000	39.5	39.5	42.3	42.3	57.2	57.2	50.1
25000	32.0	32.0	33.5	33.5	50.7	50.7	42.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-4 CRUISE POWER
92 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-031-104-300376-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-4 CRUISE POWER
92 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-031-104-300376-A
SLANT DISTANCE IN FEET
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL

USAF F-4C AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

F-4C AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-884-817
AIRCRAFT CODE: 831
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
65% RPM	204-209
85% RPM	210-215
MILITARY 100% RPM	216-221
AFTERBURNER 100% RPM	222-227

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

19 DEC 75

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 01
AIRCRAFT CODE 031
OPERATION CODE 01013
PROFILE VERSION A
19 DEC 75
PAGE C1

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
IDLE, 65% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	72	72	71	75	75	75	75	75	76	76	76	76	76	77	77	75	75	74	73
63	69	67	70	74	72	70	69	72	72	74	73	75	77	76	76	76	77	73	70
80	65	66	68	74	69	69	69	70	73	75	73	71	74	76	76	76	76	73	66
100	65	68	70	73	68	70	71	74	75	76	74	74	76	76	78	76	76	71	66<
125	67	70	73	74	73	73	74	76	78	78	79	80	81	81	79	79	77	70	65
160	65	69	72	73	74	71	75	77	78	79	77	78	81	82	80	79	76	68	64
200	64	66	68	69	66	64	69	69	70	72	73	73	73	76	76	74	70	63	62<
250	63	66	67	69	63	64	63	64	65	67	68	71	74	74	75	71	66	63	61<
315	66	69	69	69	66	66	65	67	68	69	69	69	73	75	73	72	65	64	59
400	70	73	72	70	70	68	68	74	73	73	74	74	75	74	74	72	69	65	59
500	75	78	74	71	71	67	72	73	73	71	69	70	73	74	72	69	68	63	53
630	71	72	69	72	71	68	69	70	69	68	67	68	70	70	66	63	61	61	49
800	74	72	71	71	71	67	70	70	70	69	67	68	70	70	67	65	62	59	46
1000	74	73	74	72	72	68	68	67	68	66	65	67	67	67	63	61	61	62	47
1250	76	75	75	74	72	70	67	67	68	65	66	68	69	66	63	62	62	51	46
1600	87	86	83	84	79	78	77	77	74	68	68	67	69	67	67	65	63	63	48
2000	84	86	83	82	77	76	75	75	72	68	67	68	68	68	67	64	64	64	49
2500	80	86	82	81	77	76	72	72	70	67	66	66	66	67	66	63	63	63	47
3150	75	76	75	76	71	69	67	67	66	63	63	63	64	63	62	59	57	57	42
4000	77	78	77	77	71	72	69	68	67	64	65	65	65	65	63	61	57	57	42
5000	73	75	74	75	69	70	67	65	65	61	65	65	65	65	63	61	56	55	40
6300	71	73	71	71	67	67	63	63	64	61	67	67	66	66	65	62	57	55	39
8000	69	71	70	69	65	65	61	60	61	58	64	63	64	63	63	60	56	53	38
10000	63	66	65	64	60	60	56	55	55	53	58	57	58	57	57	55	50	47	32<
OVERALL	91	92	90	90	86	85	85	86	85	86	86	86	88	88	87	86	85	81	77

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
IDLE, 65% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 01
AIRCRAFT CODE 031
OPERATION CODE 01013
PROFILE VERSION A
19 DEC 75
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	105.2	107.3	105.2	104.8	101.0	99.6	98.0	98.3	97.3	94.9	95.2	95.5	96.6	96.5	95.5	93.5	91.4	89.4	78.2
250	103.0	105.1	102.9	102.5	98.8	97.4	95.7	96.1	95.0	92.7	92.9	93.3	94.3	94.3	93.2	91.3	89.1	87.1	75.9
315	100.7	102.8	100.6	100.2	96.4	95.1	93.5	93.8	92.7	90.4	90.5	91.0	92.1	92.1	91.0	89.1	86.7	84.8	73.6
400	98.4	100.4	98.2	97.8	94.1	92.7	91.1	91.5	90.4	88.0	88.0	88.0	89.7	89.7	88.6	86.6	84.3	82.4	71.3
500	96.0	97.9	95.7	95.3	91.6	90.1	88.6	89.0	87.9	85.5	85.5	86.3	87.1	87.2	86.0	84.0	81.8	79.9	68.9
630	93.5	95.3	93.1	92.7	89.0	87.5	86.1	86.5	85.4	82.9	82.8	83.5	84.5	84.5	83.3	81.3	79.2	77.3	66.4
800	90.9	92.6	90.4	89.9	86.2	84.8	83.4	83.8	82.7	80.1	80.2	80.7	81.9	81.7	80.7	78.5	76.5	74.6	63.8
1000	88.2	89.7	87.4	87.0	83.3	81.8	80.6	81.0	80.0	77.3	77.4	77.9	79.2	78.9	77.9	75.7	73.6	71.8	61.0
1250	85.3	86.5	84.3	84.0	80.2	78.7	77.7	78.0	77.0	74.3	74.5	75.3	76.3	76.0	75.0	72.8	70.6	68.7	57.8
1600	82.2	83.2	81.0	80.8	76.9	75.3	74.5	74.9	73.8	71.0	71.4	71.9	73.2	72.9	71.9	69.7	67.3	65.3	54.4
2000	78.8	79.5	77.5	77.4	73.5	71.8	71.1	71.5	70.4	67.7	68.1	68.6	69.9	69.6	68.6	66.4	64.0	61.7	50.7
2500	75.2	75.5	73.6	73.6	69.7	68.1	67.4	67.8	66.6	63.7	64.0	64.6	65.9	65.9	64.6	62.2	59.7	57.5	45.7
3150	71.2	71.3	69.3	69.4	65.5	63.8	63.1	63.5	62.3	59.3	59.2	59.9	61.4	61.2	59.9	57.4	55.2	52.8	39.3
4000	66.8	66.9	64.8	64.8	61.0	59.1	58.5	59.0	57.6	54.3	54.0	54.7	56.5	56.8	54.6	51.9	49.8	46.6	31.9
5000	61.9	61.8	59.6	59.7	55.8	53.7	53.2	53.7	52.2	48.7	47.7	48.5	51.1	51.3	49.1	45.9	43.8	40.1	19.3
6300	56.5	56.2	54.0	53.9	50.1	48.0	47.3	47.8	45.9	42.4	40.9	42.0	45.1	45.5	42.9	39.1	37.0	32.8	7.0
8000	50.3	50.2	47.8	47.8	43.3	40.7	40.1	40.5	39.5	37.2	35.3	36.6	40.2	40.3	37.4	33.8	31.3	25.3	
10000	42.9	42.4	39.6	39.4	35.0	31.6	32.6	34.2	33.7	31.0	29.3	29.8	34.1	34.2	30.6	26.8	23.9	14.3	
12500	32.7	34.2	30.9	28.6	25.8	19.3	23.7	26.8	26.5	23.5	21.3	22.1	26.9	28.2	24.0	17.5	15.4	3.2	
16000	21.8	26.2	19.4	13.2	12.9	7.0	12.4	17.3	16.0	13.6	12.1	12.7	18.4	19.7	14.7	8.0	6.8		
20000	9.8	14.7	8.6		.1		1.2	7.9	5.6	3.7	2.9	3.4	6.8	8.6	5.3				
25000		3.3																	

TABLE I TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
IDLE, 65% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 01
AIRCRAFT CODE 031
OPERATION CODE 01013
PROFILE VERSION A
19 DEC 75
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	107.6	109.2	106.7	106.6	102.6	101.1	100.0	100.2	98.7	95.7	96.1	96.3	97.2	97.2	95.5	94.0	91.4	89.4	78.2
250	105.4	107.0	104.4	104.4	100.3	98.8	97.7	97.9	96.5	93.4	93.8	94.1	95.0	95.0	93.2	91.8	89.1	87.1	75.9
315	103.1	104.7	102.1	102.0	98.0	96.5	95.4	95.7	94.2	91.1	91.4	91.8	92.7	92.8	91.0	89.6	86.7	84.8	73.6
400	100.8	102.3	99.7	99.6	95.6	94.1	93.1	93.3	91.8	88.7	88.9	89.4	90.3	90.4	88.6	87.2	84.3	82.4	71.3
500	98.4	99.8	97.2	97.1	93.1	91.6	90.6	90.9	89.4	86.2	86.3	86.9	87.8	87.9	86.0	84.6	81.8	79.9	68.9
630	95.9	97.2	94.6	94.5	90.5	89.0	88.1	88.3	86.9	83.6	83.7	84.3	85.2	85.1	83.3	81.8	79.2	77.3	66.4
800	93.3	94.5	91.8	91.8	87.8	86.2	85.4	85.6	84.2	80.9	81.0	81.5	82.6	82.4	80.7	79.0	76.5	74.6	63.8
1000	90.6	91.6	88.9	88.8	84.9	83.3	82.6	82.8	81.4	78.0	78.2	78.7	79.8	79.6	77.9	76.2	73.6	71.8	61.0
1250	87.6	88.4	85.8	85.8	81.7	80.1	79.7	79.9	78.4	75.0	75.3	75.8	76.9	76.7	75.0	73.3	70.6	68.7	57.8
1600	84.5	85.1	82.4	82.6	78.4	76.8	76.5	76.7	75.3	71.7	72.2	72.7	73.9	73.6	71.9	70.2	67.3	65.3	54.4
2000	81.2	81.4	78.9	79.2	75.0	73.3	73.1	73.4	71.8	68.4	68.9	69.5	70.6	70.3	68.6	66.9	64.0	61.7	50.7
2500	77.6	77.4	75.0	75.4	71.3	69.5	69.3	69.6	68.0	64.4	64.9	65.4	66.6	66.6	64.6	62.7	59.7	57.5	45.7
3150	73.6	73.2	70.8	71.3	67.1	65.2	65.1	65.3	63.7	60.0	60.1	60.8	62.0	62.3	59.9	57.9	55.2	52.8	39.3
4000	68.7	68.4	66.0	66.3	62.3	60.3	60.1	60.4	58.7	54.9	54.7	55.4	57.0	57.3	54.6	52.3	49.8	46.6	31.9
5000	63.4	63.0	60.5	60.8	56.8	54.6	54.4	54.8	53.1	49.2	48.3	49.0	51.5	51.7	49.1	46.2	43.8	40.1	19.3
6300	57.4	57.0	54.6	54.6	50.8	48.6	48.1	48.5	46.4	42.7	41.2	42.4	45.3	45.8	42.9	39.3	37.0	32.8	7.0
8000	50.8	50.6	48.1	48.2	43.6	41.0	40.5	40.9	39.8	37.4	35.4	36.7	40.4	40.4	37.4	33.9	31.3	25.3	
10000	42.9	42.4	39.6	39.4	35.0	31.6	32.6	34.2	33.7	31.0	29.3	29.8	34.1	34.2	30.6	26.8	23.9	14.3	
12500	32.7	34.2	30.9	28.6	25.8	19.3	23.7	26.8	26.5	23.5	21.3	22.1	26.9	28.2	24.0	17.5	15.4	3.2	
16000	21.8	26.2	19.4	13.2	12.9	7.0	12.4	17.3	16.0	13.6	12.1	12.7	18.4	19.7	14.7	8.0	6.8		
20000	9.8	14.7	8.6		.1		1.2	7.9	5.6	3.7	2.9	3.4	6.8	8.6	5.3				
25000		3.3																	

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
IDLE, 65% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 01
AIRCRAFT CODE 031
OPERATION CODE 01013
PROFILE VERSION A
19 DEC 75
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	93.5	94.6	92.2	91.9	87.7	86.3	84.8	84.9	83.6	80.7	80.8	81.3	82.7	82.4	80.9	78.6	76.5	74.8	64.2
250	91.3	92.4	90.0	89.7	85.5	84.1	82.6	82.7	81.4	78.6	78.6	79.2	80.5	80.2	78.8	76.5	74.4	72.6	62.1
315	89.1	90.2	87.8	87.5	83.3	81.8	80.4	80.6	79.2	76.4	76.3	77.0	78.3	78.1	76.6	74.4	72.3	70.4	60.1
400	86.8	87.9	85.5	85.2	81.0	79.5	78.1	78.3	77.0	74.2	74.1	74.7	76.1	75.9	74.4	72.1	70.1	68.2	57.9
500	84.5	85.5	83.1	82.8	78.7	77.2	75.8	76.0	74.7	72.0	71.7	72.4	73.9	73.6	72.1	69.9	67.8	65.9	55.7
630	82.1	83.1	80.7	80.4	76.3	74.7	73.4	73.7	72.3	69.6	69.3	70.0	71.5	71.3	69.8	67.5	65.5	63.6	53.4
800	79.7	80.6	78.2	77.8	73.8	72.2	71.0	71.2	69.9	67.2	66.9	67.6	69.1	68.9	67.3	65.1	63.1	61.2	51.1
1000	77.1	77.9	75.5	75.2	71.2	69.5	68.4	68.7	67.4	64.8	64.4	65.1	66.7	66.5	64.8	62.6	60.6	58.7	48.6
1250	74.4	75.1	72.7	72.4	68.4	66.8	65.7	66.1	64.8	62.2	61.8	62.5	64.1	63.9	62.2	60.0	58.0	56.0	45.9
1600	71.5	72.1	69.8	69.4	65.6	63.8	62.9	63.3	62.1	59.6	59.1	59.8	61.5	61.2	59.5	57.2	55.3	53.3	43.1
2000	68.4	69.0	66.6	66.2	62.5	60.7	60.0	60.4	59.2	56.8	56.3	57.0	58.7	58.5	56.7	54.4	52.5	50.4	40.2
2500	65.1	65.5	63.2	62.8	59.2	57.4	56.8	57.2	56.1	53.7	53.1	53.9	55.6	55.4	53.4	51.1	49.4	47.2	36.7
3150	61.5	61.7	59.5	59.1	55.7	53.7	53.2	53.7	52.6	50.3	49.5	50.4	52.2	52.0	49.8	47.5	45.8	43.7	32.8
4000	57.5	57.5	55.4	55.1	51.8	49.7	49.4	49.8	48.8	46.5	45.7	46.6	48.5	48.2	45.8	43.5	41.9	39.8	28.6
5000	53.1	52.9	50.8	50.5	47.4	45.3	45.1	45.5	44.6	42.4	41.4	42.3	44.3	44.0	41.5	39.1	37.6	35.6	24.0
6300	48.1	47.7	45.8	45.5	42.6	40.4	40.3	40.7	40.0	37.9	36.8	37.9	39.8	39.6	36.9	34.5	33.1	31.0	19.3
8000	42.7	42.4	40.6	40.1	37.8	35.3	35.7	36.3	35.8	34.0	32.8	33.9	35.9	35.8	33.2	30.8	29.2	26.8	15.7
10000	36.8	36.7	35.0	34.3	32.6	29.9	30.8	31.6	31.3	29.8	28.6	29.6	31.8	31.8	29.2	26.8	25.1	22.3	12.0
12500	30.7	31.0	29.2	28.3	27.2	24.3	25.8	26.8	26.5	25.3	24.2	25.1	27.3	27.5	25.0	22.6	20.8	17.6	8.2
16000	24.4	25.3	23.3	22.2	21.5	18.5	20.4	21.7	21.5	20.4	19.4	20.2	22.5	22.8	20.6	18.2	16.3	12.6	4.2
20000	18.0	19.5	17.2	16.0	15.4	12.5	14.8	16.3	16.1	15.2	14.4	15.1	17.4	17.8	15.8	13.6	11.5	7.5	.2
25000	11.3	13.4	10.9	9.6	9.0	6.3	8.6	10.4	10.3	9.7	9.1	9.8	12.0	12.4	10.8	8.7	6.6	2.3	

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 01
AIRCRAFT CODE 031
OPERATION CODE 01013
PROFILE VERSION A
19 DEC 75
PAGE 61

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
IDLE, 65% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	95.9	96.5	93.7	93.3	89.3	87.8	86.8	86.7	85.0	81.4	81.6	82.2	83.3	83.1	80.9	79.1	76.5	74.8	64.2
250	93.7	94.3	91.5	91.6	87.1	85.6	84.6	84.6	82.9	79.3	79.4	80.0	81.2	80.9	78.8	77.0	74.4	72.6	62.1
315	91.5	92.1	89.3	89.3	84.8	83.3	82.4	82.4	80.7	77.2	77.2	77.8	79.0	78.8	76.6	74.9	72.3	70.4	60.1
400	89.2	89.8	87.0	87.0	82.6	81.0	80.1	80.1	78.4	74.9	74.9	75.5	76.8	76.6	74.4	72.7	70.1	68.2	57.9
500	86.9	87.4	84.6	84.7	80.2	78.6	77.8	77.9	76.1	72.7	72.6	73.2	74.5	74.3	72.1	70.4	67.8	65.9	55.7
630	84.5	85.0	82.2	82.2	77.8	76.2	75.4	75.5	73.8	70.4	70.2	70.8	72.2	72.0	69.8	68.0	65.5	63.6	53.4
800	82.0	82.5	79.6	79.7	75.3	73.7	73.0	73.1	71.3	68.0	67.7	68.4	69.8	69.6	67.3	65.6	63.1	61.2	51.1
1000	79.5	79.8	77.0	77.0	72.7	71.0	70.4	70.5	68.8	65.5	65.2	65.9	67.3	67.1	64.8	63.1	60.6	58.7	48.6
1250	76.8	77.0	74.2	74.2	70.0	68.2	67.7	67.9	66.2	62.9	62.6	63.3	64.8	64.6	62.2	60.5	58.0	56.0	45.9
1600	73.9	74.0	71.2	71.3	67.1	65.3	64.9	65.1	63.5	60.3	59.9	60.6	62.1	61.9	59.5	57.7	55.3	53.3	43.1
2000	70.8	70.9	68.1	68.1	64.1	62.2	61.9	62.2	60.7	57.5	57.1	57.9	59.4	59.2	56.7	54.9	52.5	50.4	40.2
2500	67.5	67.4	64.7	64.7	60.8	58.8	58.7	59.0	57.5	54.4	53.9	54.7	56.3	56.1	53.4	51.6	49.4	47.2	36.7
3150	63.9	63.6	61.0	61.0	57.2	55.2	55.2	55.5	54.1	51.0	50.4	51.2	52.9	52.7	49.8	48.0	45.8	43.7	32.8
4000	59.4	59.1	56.6	56.5	53.0	50.9	51.0	51.3	50.0	47.1	46.3	47.2	49.0	48.8	45.8	43.9	41.9	39.8	28.6
5000	54.5	54.0	51.7	51.6	48.4	46.1	46.3	46.6	45.5	42.5	41.9	42.8	44.7	44.4	41.5	39.4	37.6	35.6	24.0
6300	49.0	48.5	46.4	46.2	43.3	40.9	41.1	41.5	40.6	38.2	37.2	38.2	40.1	39.8	36.9	34.8	33.1	31.0	19.3
8000	43.2	42.7	40.9	40.5	38.1	35.6	36.1	36.6	36.0	34.1	33.0	34.0	36.1	36.0	33.2	30.9	29.2	26.8	15.7
10000	36.8	36.7	35.0	34.3	32.6	29.9	30.8	31.6	31.3	29.8	28.6	29.6	31.8	31.8	29.2	26.8	25.1	22.3	12.0
12500	30.7	31.0	29.2	28.3	27.2	24.3	25.8	26.8	26.5	25.3	24.2	25.1	27.3	27.5	25.0	22.6	20.8	17.6	8.2
16000	24.4	25.3	23.3	22.2	21.5	18.5	20.4	21.7	21.5	20.4	19.4	20.2	22.5	22.8	20.6	18.2	16.3	12.6	4.2
20000	18.0	19.5	17.2	16.0	15.4	12.5	14.8	16.3	16.1	15.2	14.4	15.1	17.4	17.8	15.8	13.6	11.5	7.5	.2
25000	11.3	13.4	10.9	9.6	9.0	6.3	8.6	10.4	10.3	9.7	9.1	9.8	12.0	12.4	10.8	8.7	6.6	2.3	

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
IDLE, 65% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 01
AIRCRAFT CODE 031
OPERATION CODE 01013
PROFILE VERSION A
19 DEC 75
PAGE J1

P=PNLT A=AL T=ALT

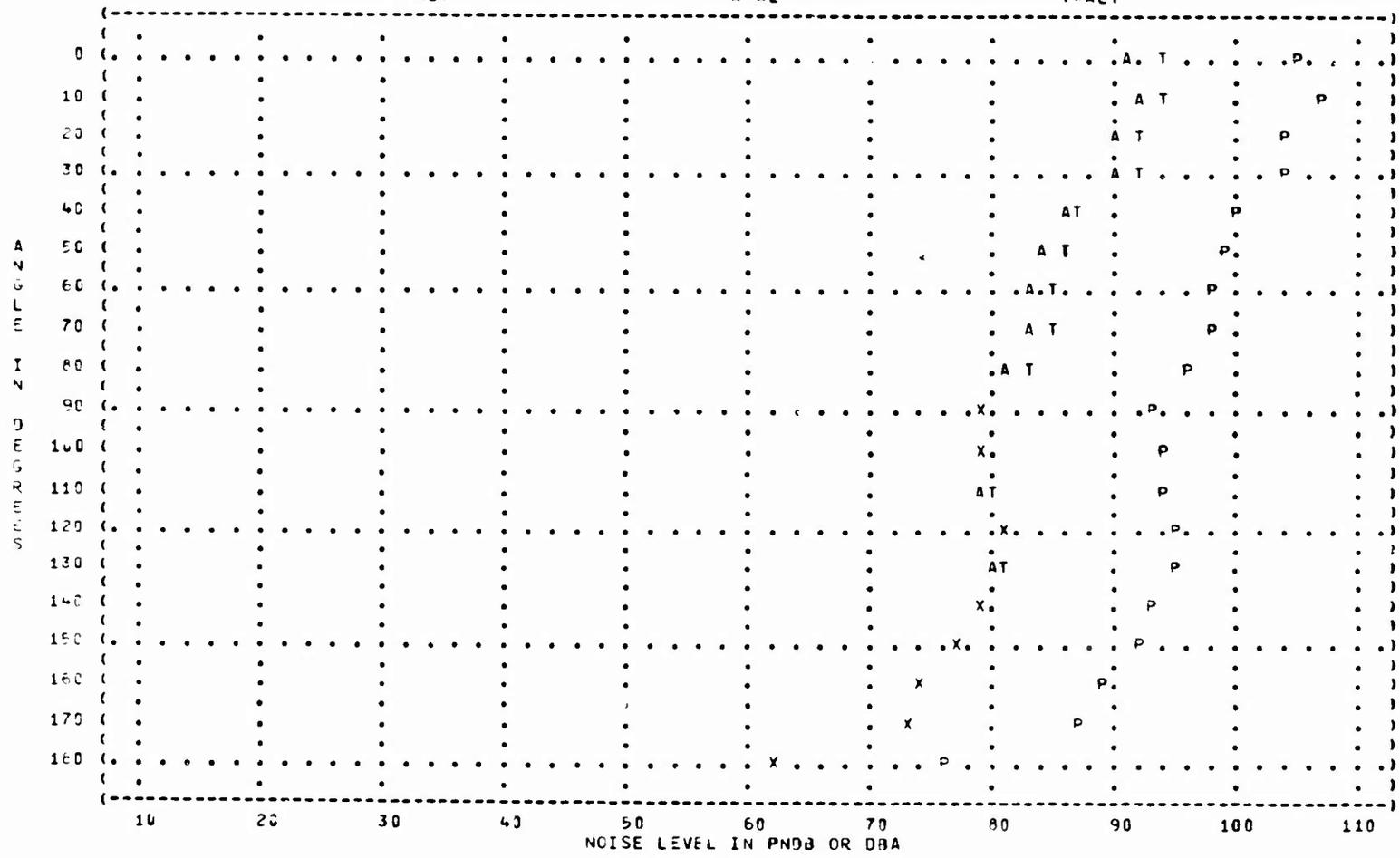


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 02

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

AIRCRAFT CODE 031
OPERATION CODE 01018
PROFILE VERSION A
19 DEC 75
PAGE C2

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	74	73	74	76	78	80	81	82	82	83	85	86	87	92	96	97	97	94	81
63	76	76	77	79	82	82	83	84	85	85	87	88	91	95	98	101	100	96	77
80	78	78	79	81	83	82	85	85	85	86	88	89	93	98	101	102	101	96	72
100	80	80	82	86	85	84	86	88	88	90	92	93	94	100	106	106	104	98	72
125	81	81	84	86	86	88	88	89	91	91	93	95	96	102	108	108	105	97	74
160	83	84	87	87	88	88	90	91	92	92	95	97	99	103	108	109	107	98	76
200	81	84	86	86	86	87	88	89	89	91	94	95	97	101	105	107	104	95	72
250	80	82	83	84	85	86	86	88	88	89	91	93	96	99	101	104	102	92	69
315	81	84	87	87	88	88	91	92	93	93	95	95	98	101	101	103	104	93	69
400	82	85	90	90	92	92	95	96	97	96	98	98	100	103	103	101	103	93	68
500	81	84	88	89	93	91	94	95	95	97	98	98	100	101	100	98	97	84	65
630	84	89	88	89	90	91	94	95	97	94	96	99	100	101	100	98	97	84	65
800	89	98	91	96	97	99	103	101	103	99	99	109	110	110	104	107	103	90	71
1000	79	82	83	85	86	86	89	91	92	92	93	94	95	98	98	96	93	80	63
1250	80	82	83	86	87	86	89	92	92	92	92	94	94	96	96	93	89	77	61
1600	83	84	84	87	87	86	89	91	91	93	92	93	96	96	94	90	89	76	63
2000	97	96	92	95	93	88	90	90	90	91	90	92	94	95	93	90	86	76	60
2500	97	97	94	95	95	92	93	91	89	90	89	90	93	94	91	88	83	76	59
3150	86	86	84	86	86	82	85	85	86	87	86	87	90	91	89	84	79	71	56
4000	89	88	84	86	88	82	85	85	86	86	86	86	88	90	88	83	78	71	55
5000	87	87	83	86	87	81	85	83	83	83	82	82	84	88	85	80	75	69	52
6300	83	83	79	82	84	78	81	80	81	80	81	81	83	85	83	79	73	68	49
8000	80	81	78	80	82	76	80	78	79	77	79	78	80	82	80	76	72	67	45
10000	75	75	73	75	75	72	74	73	74	72	75	73	75	77	74	72	67	62	41
OVERALL	102	103	100	103	103	103	106	106	107	106	107	111	113	114	115	116	114	106	85

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 02
AIRCRAFT CODE 031
OPERATION CODE 01018
PROFILE VERSION A
19 DEC 75
PAGE 02

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	117.9	118.5	116.1	118.0	118.3	115.9	118.0	117.5	118.4	117.3	117.6	122.0	123.7	125.3	123.3	123.5	120.7	111.1	90.4
250	115.7	116.3	113.9	115.8	116.1	113.7	115.8	115.3	116.2	115.1	115.4	119.9	121.6	123.1	121.1	121.4	118.7	109.0	88.2
315	113.4	114.0	111.6	113.5	113.8	111.4	113.6	113.1	114.0	112.9	113.2	117.7	119.4	121.0	119.0	119.2	116.6	106.9	85.9
400	111.0	111.6	109.2	111.1	111.4	109.1	111.4	110.9	111.8	110.6	111.0	115.5	117.2	118.8	116.8	117.1	114.4	104.7	83.6
500	108.5	109.1	106.8	108.7	109.0	106.7	109.1	108.5	109.5	108.2	108.7	113.3	114.9	116.5	114.5	114.8	112.2	102.4	81.2
630	105.9	106.6	104.2	106.1	106.4	104.1	106.7	106.2	107.1	105.7	106.3	110.9	112.6	114.1	112.1	112.5	109.9	100.0	78.8
800	103.2	103.8	101.5	103.4	103.7	101.5	104.2	103.7	104.6	103.2	103.8	108.5	110.2	111.7	109.7	110.1	107.6	97.6	76.2
1000	100.2	101.0	98.7	100.6	100.9	98.7	101.6	101.1	102.0	100.6	101.2	106.0	107.6	109.2	107.1	107.5	105.1	95.0	73.6
1250	97.1	97.9	95.6	97.5	97.8	95.6	98.9	98.4	99.3	97.8	98.4	103.4	105.0	106.5	104.4	104.9	102.5	92.3	70.7
1600	93.7	94.5	92.3	94.2	94.5	92.7	96.0	95.5	96.4	94.9	95.5	100.6	102.2	103.6	101.4	102.0	99.6	89.4	67.7
2000	90.0	90.9	88.7	90.6	90.9	89.7	93.0	92.4	93.4	91.8	92.4	97.6	99.2	100.6	98.3	98.9	96.7	86.2	64.3
2500	86.0	86.9	84.7	86.6	86.9	86.4	89.8	89.2	90.2	88.5	89.0	94.4	96.0	97.4	94.9	95.6	92.9	82.2	60.7
3150	81.6	82.5	80.2	82.3	82.5	82.8	86.3	85.6	86.6	84.8	85.4	91.0	92.6	93.8	91.2	91.9	88.9	77.8	56.6
4000	76.9	78.4	75.2	77.8	78.5	78.9	82.5	81.8	82.8	80.8	81.4	87.3	88.9	90.0	87.1	87.9	84.8	73.0	51.8
5000	71.5	74.0	69.7	73.3	73.9	74.6	78.2	77.4	78.5	76.4	77.0	83.2	84.7	85.7	82.7	83.6	80.4	68.4	46.7
6300	65.5	69.1	64.6	68.3	69.0	69.8	73.5	72.7	73.8	71.6	72.1	78.6	80.0	81.1	77.9	78.9	75.7	63.4	40.5
8000	59.1	64.5	60.0	63.8	64.5	65.5	69.2	68.4	69.6	67.3	67.9	74.4	75.9	76.9	73.8	74.9	71.7	59.2	34.9
10000	52.3	59.4	54.8	58.8	59.6	60.6	64.5	63.7	64.9	62.5	63.2	69.8	71.3	72.4	69.4	70.6	67.4	54.6	28.2
12500	45.9	53.7	49.1	53.2	54.1	55.3	59.2	58.4	59.6	57.3	58.0	64.6	66.2	67.4	64.4	65.7	62.6	49.6	20.8
16000	37.5	46.8	41.7	46.5	47.6	49.0	53.0	52.3	53.6	51.8	52.8	58.7	60.3	61.6	58.9	60.2	57.2	44.4	11.8
20000	28.6	39.0	34.2	38.1	39.8	41.0	46.0	45.2	46.6	45.7	46.9	51.9	53.6	55.0	52.6	54.1	52.0	38.5	3.6
25000	16.1	29.4	26.6	29.2	32.4	32.1	36.7	36.1	37.0	37.5	39.5	43.9	45.6	47.4	46.4	46.7	46.1	31.9	

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 02
AIRCRAFT CODE 031
OPERATION CODE 01018
PROFILE VERSION A
19 DEC 75
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	120.7	122.6	118.5	120.9	121.2	119.5	121.9	120.1	121.1	119.3	119.2	126.2	128.0	128.8	125.1	126.8	122.9	113.9	92.8
250	118.5	120.4	116.3	118.7	119.0	117.3	119.7	118.0	118.9	117.1	117.0	124.1	125.8	126.7	123.0	124.7	120.9	111.7	90.6
315	116.2	118.1	114.0	116.4	116.7	115.0	117.5	115.8	116.8	114.9	114.8	121.9	123.7	124.5	120.8	122.5	118.7	109.6	88.3
400	113.8	115.7	111.6	114.0	114.4	112.7	115.2	113.5	114.5	112.5	112.6	119.7	121.4	122.3	118.6	120.4	116.6	107.4	86.0
500	111.3	113.3	109.2	111.6	111.9	110.3	112.9	111.2	112.2	110.1	110.3	117.4	119.2	120.1	116.4	118.1	114.4	105.1	83.6
630	108.7	110.7	106.6	109.0	109.3	107.8	110.5	108.8	109.8	107.7	107.9	115.1	116.8	117.7	114.0	115.8	112.1	102.7	81.2
800	106.0	108.0	103.9	106.3	106.6	105.1	108.1	106.3	107.4	105.2	105.4	112.7	114.4	115.3	111.5	113.4	109.8	100.3	78.6
1000	103.1	105.1	101.0	103.5	103.8	102.3	105.5	103.8	104.8	102.6	102.8	110.2	111.9	112.7	109.0	110.9	107.3	97.7	76.0
1250	99.9	102.0	98.0	100.4	100.7	99.3	102.8	101.0	102.0	99.8	100.0	107.5	109.2	110.0	106.2	108.2	104.6	95.0	73.1
1600	96.5	98.7	94.6	97.1	97.4	96.4	99.9	98.1	99.2	96.9	97.1	104.7	106.4	107.2	103.3	105.3	101.8	92.1	70.1
2000	92.9	95.0	91.1	93.5	93.8	93.3	96.9	95.1	96.2	93.8	94.0	101.8	103.5	104.2	100.2	102.2	98.9	88.9	66.7
2500	88.8	91.0	87.1	89.5	89.8	90.0	93.6	91.8	92.9	90.4	90.6	98.6	100.3	100.9	96.8	98.9	95.1	84.9	63.1
3150	84.5	86.6	82.6	85.2	85.4	86.4	90.1	88.3	89.4	86.8	87.0	95.2	96.8	97.4	93.0	95.2	91.1	80.5	59.0
4000	79.1	81.7	77.1	80.1	80.8	81.8	85.6	83.9	85.0	82.4	82.6	90.7	92.3	92.8	88.6	90.6	86.6	75.1	53.7
5000	73.2	76.5	71.1	75.0	75.7	76.8	80.5	79.0	80.2	77.6	77.9	85.7	87.2	87.9	83.8	85.6	81.7	70.0	48.2
6300	66.7	70.7	65.5	69.5	70.2	71.2	75.0	73.7	74.9	72.4	72.8	80.2	81.7	82.5	78.6	80.2	76.5	64.4	41.5
8000	59.6	65.4	60.4	64.4	65.1	66.2	70.3	69.0	70.1	67.7	68.2	75.2	76.7	77.7	74.2	75.6	72.2	59.7	35.4
10000	52.3	59.4	54.5	58.8	59.6	60.6	64.5	63.7	64.9	62.5	63.2	69.9	71.3	72.4	69.4	70.6	67.4	54.6	28.2
12500	45.9	53.7	49.1	53.2	54.1	55.3	59.2	58.4	59.6	57.3	58.0	64.6	66.2	67.4	64.4	65.7	62.6	49.6	20.0
16000	37.5	46.8	41.7	46.5	47.6	49.0	53.0	52.3	53.6	51.8	52.8	58.7	60.3	61.6	58.9	60.2	57.2	44.4	11.8
20000	28.6	39.0	34.2	38.1	39.8	41.0	46.0	45.2	46.6	45.7	46.9	51.9	53.6	55.0	52.6	54.1	52.0	38.5	3.6
25000	16.1	29.4	26.6	29.2	32.4	32.1	36.7	36.1	37.0	37.5	39.5	43.9	45.6	47.4	46.4	46.7	46.1	31.9	

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 02
AIRCRAFT CODE 031
OPERATION CODE 01018
PROFILE VERSION A
19 DEC 75
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	104.5	105.4	101.7	104.3	104.4	103.5	106.8	106.1	107.0	105.6	106.0	111.4	112.8	113.6	110.7	111.3	108.8	97.4	77.4
250	102.3	103.3	99.5	102.1	102.2	101.3	104.7	104.0	104.9	103.5	103.9	109.3	110.7	111.5	108.6	109.2	106.8	95.3	75.3
315	100.0	101.1	97.3	99.9	100.0	99.2	102.6	101.9	102.8	101.4	101.8	107.2	108.6	109.4	106.5	107.1	104.7	93.3	73.2
400	97.7	98.8	95.0	97.7	97.8	97.0	100.4	99.7	100.7	99.2	99.6	105.1	106.5	107.3	104.4	105.0	102.6	91.2	71.1
500	95.3	96.5	92.7	95.4	95.5	94.8	98.2	97.6	98.5	97.0	97.4	103.0	104.4	105.2	102.2	102.9	100.5	89.0	68.9
630	92.8	94.1	90.3	93.0	93.1	92.6	96.0	95.3	96.3	94.8	95.2	100.8	102.2	103.0	100.0	100.6	98.3	86.8	66.6
800	90.2	91.6	87.8	90.5	90.7	90.3	93.8	93.1	94.1	92.5	93.0	98.6	100.0	100.7	97.7	98.4	96.0	84.5	64.3
1000	87.5	89.1	85.2	88.0	88.2	87.9	91.4	90.8	91.8	90.1	90.6	96.3	97.7	98.5	95.4	96.0	93.7	82.1	62.0
1250	84.6	86.4	82.5	85.3	85.6	85.5	89.1	88.4	89.4	87.7	88.2	94.0	95.4	96.1	92.9	93.6	91.3	79.5	59.5
1600	81.5	83.6	79.7	82.6	82.9	83.0	86.6	85.9	86.9	85.2	85.8	91.6	92.9	93.6	90.4	91.1	88.7	76.9	56.9
2000	78.1	80.7	76.7	79.7	80.1	80.3	84.0	83.3	84.4	82.6	83.2	89.1	90.4	91.1	87.8	88.5	86.1	74.1	54.2
2500	74.5	77.6	73.5	76.5	77.1	77.5	81.3	80.5	81.6	79.7	80.3	86.4	87.7	88.4	84.9	85.6	83.0	70.9	51.2
3150	70.6	74.4	70.0	73.2	73.8	74.5	78.3	77.5	78.7	76.6	77.2	83.5	84.8	85.4	81.8	82.6	79.8	67.4	48.1
4000	66.3	70.9	66.2	69.6	70.3	71.3	75.2	74.2	75.4	73.1	73.7	80.4	81.7	82.3	78.4	79.4	76.2	63.7	44.6
5000	61.5	66.9	61.9	65.6	66.3	67.5	71.4	70.4	71.6	69.2	69.8	76.7	78.0	78.5	74.5	75.6	72.2	59.5	40.7
6300	56.3	62.5	57.3	61.1	61.9	63.2	67.2	66.1	67.4	64.9	65.5	72.5	73.8	74.3	70.2	71.4	67.9	55.1	36.5
8000	51.2	58.4	53.2	57.0	57.9	59.3	63.3	62.2	63.5	61.0	61.6	68.6	69.9	70.4	66.3	67.5	64.2	51.4	32.6
10000	46.1	54.0	48.8	52.5	53.6	54.9	59.0	57.9	59.1	56.7	57.3	64.3	65.6	66.1	62.1	63.2	60.0	47.4	28.3
12500	40.8	48.9	44.0	47.6	48.8	50.1	54.1	53.0	54.3	51.9	52.7	59.3	60.6	61.2	57.4	58.4	55.5	43.1	23.6
16000	35.2	43.3	38.8	42.1	43.4	44.5	48.5	47.6	48.8	46.7	47.5	53.7	55.0	55.7	52.1	53.0	50.4	38.4	18.4
20000	29.0	36.7	33.0	36.0	37.4	38.3	42.1	41.5	42.6	40.9	41.8	47.3	48.6	49.4	46.4	47.1	45.0	33.4	12.8
25000	22.1	29.1	26.6	29.1	30.8	31.2	34.9	34.6	35.6	34.5	35.4	39.9	41.3	42.4	40.4	40.8	39.3	28.4	7.2

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 02
AIRCRAFT CODE 031
OPERATION CODE 01018
PROFILE VERSION A
19 DEC 75
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	107.3	109.6	104.1	107.2	107.3	107.1	110.6	108.8	109.8	107.6	107.6	115.6	117.1	117.2	112.6	114.6	111.0	100.1	79.8
250	105.1	107.4	101.9	105.0	105.1	105.0	108.5	106.7	107.7	105.5	105.5	113.5	115.0	115.1	110.5	112.5	109.0	98.0	77.7
315	102.9	105.2	99.7	102.8	102.9	102.8	106.4	104.5	105.6	103.3	103.4	111.4	112.9	113.0	108.4	110.4	106.9	96.0	75.6
400	100.5	102.9	97.4	100.6	100.7	100.7	104.3	102.4	103.4	101.2	101.2	109.3	110.8	110.9	106.3	108.3	104.8	93.9	73.5
500	98.1	100.6	95.1	98.3	98.4	98.5	102.1	100.2	101.3	99.0	99.0	107.2	108.6	108.7	104.1	106.2	102.7	91.7	71.3
630	95.6	98.2	92.7	95.9	96.0	96.2	99.9	98.0	99.1	96.7	96.8	105.0	106.5	106.5	101.9	104.0	100.5	89.5	69.0
800	93.0	95.8	90.2	93.4	93.6	93.9	97.6	95.7	96.8	94.5	94.6	102.8	104.2	104.3	99.6	101.7	98.2	87.2	66.7
1000	90.3	93.2	87.6	90.9	91.1	91.6	95.3	93.4	94.5	92.1	92.2	100.5	102.0	102.0	97.2	99.4	95.9	84.9	64.4
1250	87.4	90.5	84.9	88.3	88.5	89.1	92.9	91.0	92.2	89.7	89.8	98.2	99.6	99.7	94.8	96.9	93.5	82.2	61.9
1600	84.3	87.7	82.1	85.5	85.8	86.6	90.5	88.6	89.7	87.2	87.4	95.7	97.2	97.2	92.3	94.4	90.9	79.6	59.3
2000	81.0	84.8	79.1	82.6	83.0	84.0	87.9	86.0	87.1	84.6	84.8	93.2	94.7	94.7	89.7	91.8	88.3	76.8	56.6
2500	77.4	81.7	75.8	79.5	80.0	81.2	85.1	83.2	84.4	81.7	81.9	90.5	92.0	91.9	86.8	89.0	85.2	73.6	53.6
3150	73.4	78.5	72.3	76.1	76.7	78.1	82.2	80 2	81.4	78.6	78.8	87.7	89.1	89.0	83.6	85.9	82.0	70.1	50.5
4000	68.6	74.2	68.1	72.0	72.6	74.2	78.3	76.4	77.6	74.7	75.0	83.7	85.1	85.1	79.8	82.0	78.0	65.8	46.6
5000	63.2	69.4	63.3	67.3	68.0	69.6	73.7	72.0	73.3	70.4	70.7	79.2	80.5	80.6	75.6	77.6	73.5	61.2	42.2
6300	57.4	64.2	58.3	62.3	63.1	64.7	68.8	67.2	68.5	65.7	66.1	74.2	75.5	75.7	70.9	72.7	68.8	56.2	37.4
8000	51.8	59.3	53.7	57.6	58.5	60.0	64.1	62.8	64.0	61.4	61.9	69.4	70.8	71.1	65.7	68.2	64.6	52.0	33.0
10000	46.1	54.0	48.8	52.5	53.6	54.9	59.0	57.9	59.1	56.7	57.3	64.3	65.6	66.1	62.1	63.2	60.0	47.4	28.3
12500	40.8	48.9	44.0	47.6	48.8	50.1	54.1	53.0	54.3	51.9	52.7	59.3	60.6	61.2	57.4	58.4	55.5	43.1	23.6
16000	35.2	43.3	38.8	42.1	43.4	44.5	48.5	47.6	48.8	46.7	47.5	53.7	55.0	55.7	52.1	53.0	50.4	38.4	18.4
20000	29.0	36.7	33.0	36.0	37.4	38.3	42.1	41.5	42.6	40.9	41.8	47.3	48.6	49.4	46.4	47.1	45.0	33.4	12.8
25000	24.1	29.1	26.6	29.1	30.8	31.2	34.9	34.6	35.6	34.5	35.4	39.9	41.3	42.4	40.4	40.8	39.3	28.4	7.2

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUM = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 02
AIRCRAFT CODE 031
OPERATION CODE 01018
PROFILE VERSION A
19 DEC 75
PAGE J2

P=PNLT A=AL T=ALT

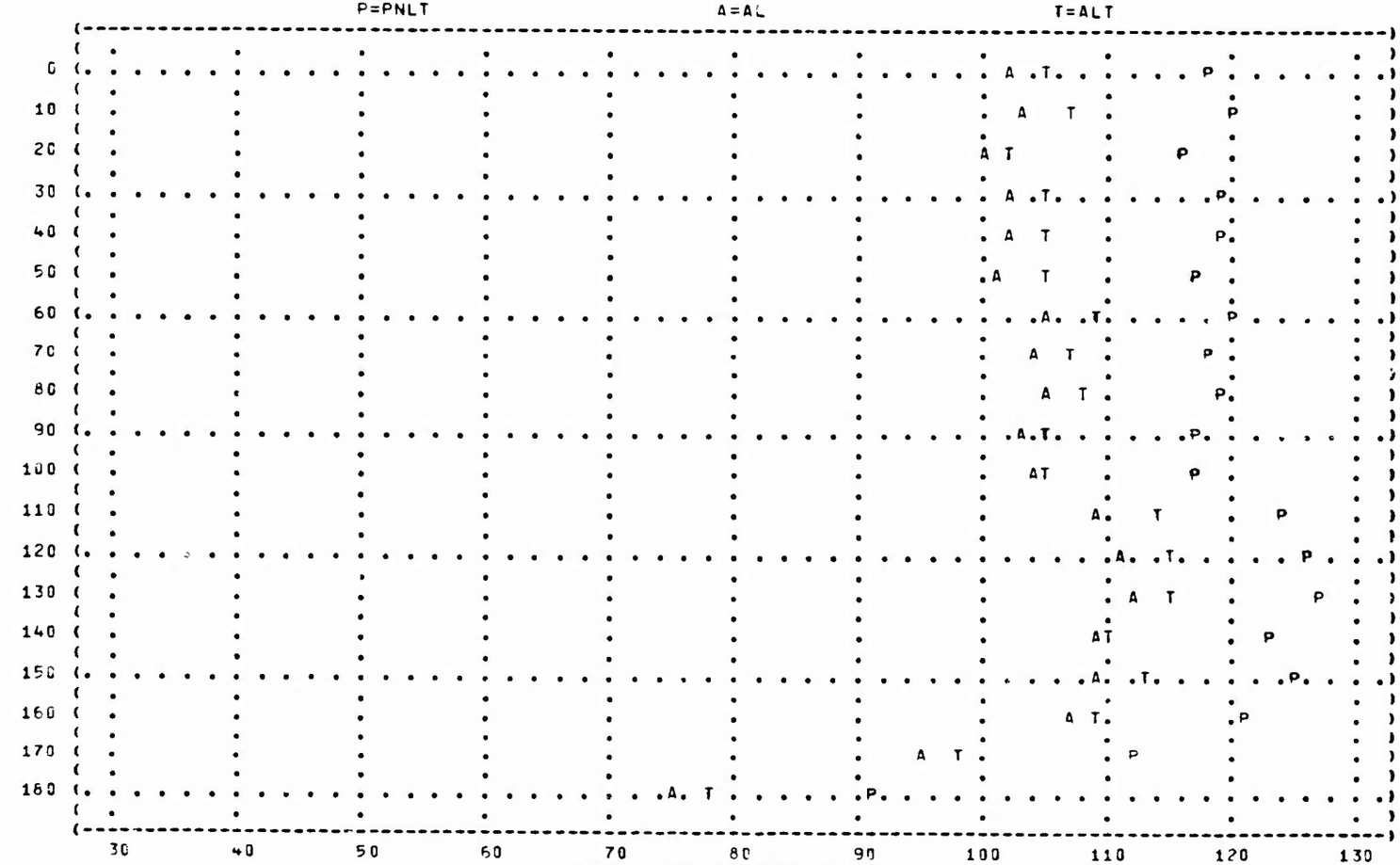


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 03

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

AIRCRAFT CODE 0?1
OPERATION CODE 01004
PROFILE VERSION A
19 DEC 75
PAGE C3

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	81	81	81	82	83	82	85	86	88	88	89	91	94	99	105	107	105	100	80
63	83	82	83	85	87	86	87	89	91	91	92	93	98	104	108	110	107	99	79
80	84	84	87	87	87	88	89	89	91	93	94	97	101	108	111	112	108	99	79
100	87	87	89	91	90	92	92	94	95	96	98	100	106	113	116	115	111	100	80
125	88	89	92	92	92	95	94	97	98	98	101	102	107	116	119	117	112	100	80
160	91	92	95	94	95	96	97	98	99	99	103	104	109	118	121	119	114	99	79
200	91	93	94	94	93	95	96	96	97	99	103	104	107	116	119	118	112	96	76
250	88	92	92	93	93	95	93	96	96	98	100	103	107	113	117	117	111	92	72
315	90	92	96	95	94	96	96	97	97	99	102	106	110	116	118	118	114	93	73
400	93	96	98	96	97	98	99	101	100	102	105	108	111	117	121	119	115	90	70
500	92	93	96	97	100	99	101	102	100	103	105	108	110	115	117	116	113	86	66
630	91	93	96	96	97	98	98	99	99	100	103	107	109	112	115	113	110	84	64
800	94	94	97	98	101	101	101	102	100	102	105	108	109	113	115	112	109	83	63
1000	90	92	94	96	98	98	99	99	99	100	102	105	106	109	113	110	108	82	62
1250	89	91	93	96	97	96	98	101	99	101	104	107	106	109	111	110	107	81	61
1600	87	90	93	95	94	95	98	100	99	101	104	108	107	108	111	109	105	80	60
2000	84	87	90	92	93	94	95	97	98	98	102	107	104	107	109	107	103	78	58
2500	84	86	90	92	94	94	95	97	98	97	99	107	104	106	108	106	102	76	56
3150	82	84	87	88	90	90	92	94	95	94	96	104	101	103	105	103	98	73	53
4000	82	83	86	87	88	88	91	92	95	93	94	103	101	103	105	102	97	71	51
5000	80	80	84	84	86	86	88	89	92	90	92	100	97	100	102	99	93	68	48
6300	77	78	82	83	83	82	85	87	90	88	89	99	96	98	100	97	91	65	45
8000	75	76	79	80	82	81	83	84	89	85	88	97	94	96	99	94	89	63	43
10000	70	71	74	75	76	75	78	79	85	80	83	92	90	92	96	89	85	58	38
OVERALL	102	104	106	107	108	109	110	111	111	112	115	118	120	126	129	128	123	108	88

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 03
AIRCRAFT CODE 031
OPERATION CODE 01004
PROFILE VERSION A
19 DEC 75
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	113.1	114.9	117.7	119.0	120.5	120.7	122.0	123.6	124.2	124.4	126.9	132.5	131.8	135.8	138.7	137.0	132.7	112.1	91.8
250	110.9	112.7	115.5	116.8	118.3	118.5	119.8	121.4	122.0	122.2	124.7	130.3	129.6	133.7	136.5	134.9	130.5	110.1	89.7
315	108.7	110.4	113.3	114.5	116.0	116.3	117.5	119.1	119.7	120.0	122.5	128.0	127.3	131.5	134.4	132.7	128.4	108.0	87.5
400	106.5	108.2	110.9	112.2	113.7	113.9	115.2	116.8	117.4	117.7	120.2	125.6	125.0	129.3	132.2	130.6	126.2	105.8	85.1
500	104.1	105.9	108.5	109.8	111.3	111.5	112.8	114.4	115.0	115.3	117.9	123.2	122.6	127.0	129.9	128.3	124.0	103.4	82.6
630	101.7	103.5	106.1	107.3	108.8	109.0	110.3	111.9	112.4	112.8	115.4	120.7	120.1	124.7	127.6	126.0	121.7	101.0	79.9
800	99.2	101.0	103.5	104.8	106.1	106.4	107.7	109.3	109.7	110.2	112.9	118.0	117.5	122.2	125.1	123.6	119.3	98.4	77.1
1000	96.6	98.4	100.9	102.1	103.4	103.7	104.9	106.6	106.9	107.5	110.2	115.2	114.7	119.7	122.6	121.1	116.8	95.7	74.2
1250	93.6	95.7	98.1	99.2	100.5	100.8	101.9	103.8	103.9	104.6	107.4	112.1	111.9	117.0	119.9	118.4	114.1	92.6	71.2
1600	90.8	92.8	95.2	96.2	97.5	97.9	98.9	100.7	100.6	101.6	104.3	108.9	109.0	114.2	117.1	115.6	111.4	89.5	68.2
2000	87.7	89.8	92.2	92.9	94.4	94.8	95.8	97.4	97.2	98.3	101.1	105.4	105.9	111.2	114.2	112.7	108.4	86.2	64.9
2500	84.3	86.0	88.4	89.4	91.1	91.4	92.5	93.8	93.5	94.8	97.5	101.5	102.3	107.4	110.4	108.9	104.7	82.2	60.8
3150	80.6	82.0	84.5	85.7	87.5	87.7	88.6	89.9	89.5	90.9	93.6	97.6	98.4	103.2	106.2	104.7	100.5	77.7	55.9
4000	76.6	77.9	80.4	81.7	83.5	83.8	84.5	85.6	85.1	86.6	89.4	93.2	94.0	98.8	101.5	100.0	96.0	72.7	50.2
5000	72.1	73.5	75.9	77.3	79.1	79.4	80.1	81.2	80.4	82.1	85.0	88.3	89.3	94.0	96.5	95.1	91.3	67.4	43.6
6300	67.3	68.6	71.1	72.4	74.3	74.6	75.3	76.3	75.4	77.2	80.1	83.3	84.5	89.1	91.5	90.2	86.5	62.2	37.1
8000	63.0	64.3	66.7	68.1	70.0	70.3	70.9	71.9	71.0	72.9	75.8	78.9	80.4	85.3	87.7	86.5	82.7	58.3	30.7
10000	58.3	59.6	62.0	63.3	65.2	65.5	66.3	67.5	66.2	68.5	71.3	74.5	76.2	81.2	83.7	82.5	78.7	54.0	23.1
12500	52.8	54.3	56.9	58.0	60.2	60.3	61.5	62.7	61.2	63.8	66.5	69.7	71.6	76.9	79.4	78.2	74.3	49.3	14.3
16000	46.8	49.1	51.5	52.3	54.9	54.8	56.3	57.5	55.9	58.5	61.4	64.6	66.7	72.1	74.7	73.5	69.5	44.0	5.6
20000	40.1	42.6	45.4	46.2	49.0	48.9	50.4	51.7	50.0	52.7	55.6	58.8	61.0	66.8	69.7	68.3	64.3	37.7	
25000	31.7	34.7	38.0	38.7	41.8	41.7	43.1	44.6	42.7	45.9	49.2	52.3	54.9	61.0	64.3	62.9	58.4	30.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 03
AIRCRAFT CODE 031
OPERATION CODE 01004
PROFILE VERSION A
19 DEC 75
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	114.4	114.9	117.7	119.0	121.6	120.7	122.0	123.6	124.2	124.4	126.9	132.5	131.8	135.8	139.2	137.0	132.7	112.1	91.8
250	112.2	112.7	115.5	116.8	119.4	118.5	119.8	121.4	122.0	122.2	124.7	130.3	129.6	133.7	137.1	134.9	130.5	110.1	89.7
315	110.0	110.4	113.3	114.5	117.2	116.3	117.5	119.1	119.7	120.0	122.5	128.0	127.3	131.5	134.9	132.7	128.4	108.0	87.5
400	107.7	108.2	110.9	112.2	114.9	113.9	115.2	116.8	117.4	117.7	120.2	125.6	125.0	129.3	132.7	130.6	126.2	105.8	85.1
500	105.4	105.9	108.5	109.8	112.4	111.5	112.8	114.4	115.0	115.3	117.9	123.2	122.6	127.0	130.4	128.3	124.0	103.4	82.6
630	103.0	103.5	106.1	107.3	109.9	109.0	110.3	111.9	112.4	112.8	115.4	120.7	120.1	124.7	128.1	126.0	121.7	101.0	79.9
800	100.5	101.0	103.5	104.8	107.3	106.4	107.7	109.3	109.7	110.2	112.9	118.0	117.5	122.2	125.7	123.6	119.3	98.4	77.1
1000	97.8	98.4	100.9	102.1	104.5	103.7	104.9	106.6	106.9	107.5	110.2	115.2	114.7	119.7	123.1	121.1	116.8	95.7	74.2
1250	95.0	95.7	98.1	99.2	101.6	100.9	101.9	103.8	103.9	104.6	107.4	112.1	111.9	117.0	120.5	118.4	114.1	92.6	71.2
1600	92.1	92.8	95.2	96.2	98.7	97.9	98.9	100.7	100.6	101.6	104.3	108.9	109.0	114.2	117.7	115.6	111.4	89.5	68.2
2000	89.0	89.8	92.2	92.9	95.6	94.8	95.8	97.4	97.2	98.3	101.1	105.4	105.9	111.2	114.7	112.7	108.4	86.2	64.9
2500	85.6	86.0	88.4	89.4	92.3	91.4	92.5	93.8	93.5	94.8	97.5	101.6	102.3	107.4	110.9	108.9	104.7	82.2	60.8
3150	81.9	82.0	84.5	85.7	88.6	87.7	88.6	89.9	89.5	90.9	93.6	97.6	98.4	103.2	106.7	104.7	100.5	77.7	55.9
4000	77.6	77.9	80.4	81.7	84.4	83.9	84.5	85.6	85.1	86.6	89.4	93.2	94.0	98.8	101.9	100.0	96.0	72.7	50.2
5000	72.9	73.5	75.9	77.3	79.8	79.4	80.1	81.2	80.4	82.1	85.0	88.3	89.3	94.0	96.8	95.1	91.3	67.4	43.6
6300	67.8	68.6	71.1	72.4	74.8	74.6	75.3	76.3	75.4	77.2	80.1	83.3	84.5	89.1	91.8	90.2	86.5	62.2	37.1
8000	63.3	64.3	66.7	68.1	70.2	70.3	70.9	71.9	71.0	72.9	75.8	78.9	80.4	85.3	87.8	86.5	82.7	58.3	30.7
10000	58.3	59.6	62.0	63.3	65.2	65.5	66.3	67.5	66.2	68.5	71.3	74.5	76.2	81.2	83.7	82.5	78.7	54.0	23.1
12500	52.8	54.3	56.9	58.0	60.2	60.3	61.5	62.7	61.2	63.8	66.5	69.7	71.6	76.9	79.4	78.2	74.3	49.3	14.3
16000	46.8	49.1	51.5	52.3	54.9	54.8	56.3	57.5	55.9	58.5	61.4	64.6	66.7	72.1	74.7	73.5	69.5	44.0	5.6
20000	40.1	42.6	45.4	46.2	49.0	48.9	50.4	51.7	50.0	52.7	55.6	58.8	61.0	66.8	69.7	68.3	64.3	37.7	
25000	31.7	34.7	38.0	38.7	41.8	41.7	43.1	44.6	42.7	45.9	49.2	52.3	54.9	61.0	64.3	62.9	58.4	30.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 03
AIRCRAFT CODE 031
OPERATION CODE 01004
PROFILE VERSION A
19 DEC 75
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>160
200	101.4	103.2	105.8	107.1	108.6	108.8	110.0	111.4	111.0	112.1	114.9	119.3	119.1	123.0	125.6	123.9	120.1	97.2	77.2
250	99.3	101.1	103.7	105.0	106.5	106.7	107.9	109.3	108.9	110.0	112.8	117.1	117.0	120.9	123.5	121.8	118.0	95.2	75.2
315	97.2	99.0	101.5	102.8	104.4	104.6	105.8	107.2	106.7	107.9	110.6	114.9	114.8	118.8	121.4	119.7	116.0	93.1	73.1
400	95.0	96.8	99.4	100.7	102.2	102.4	103.6	105.0	104.5	105.7	108.4	112.7	112.7	116.7	119.3	117.6	113.8	91.0	71.0
500	92.8	94.6	97.2	98.5	100.0	100.2	101.4	102.8	102.2	103.5	106.2	110.4	110.5	114.5	117.1	115.5	111.7	88.8	68.8
630	90.6	92.4	95.0	96.2	97.8	98.0	99.1	100.5	99.5	101.2	104.0	108.1	108.2	112.3	114.9	113.2	109.5	86.5	66.5
800	88.3	90.1	92.7	93.9	95.5	95.7	96.8	98.2	97.5	98.9	101.7	105.7	105.9	110.0	112.6	111.0	107.2	84.1	64.1
1000	86.0	87.8	90.3	91.5	93.1	93.3	94.4	95.8	95.0	96.5	99.3	103.2	103.5	107.6	110.3	108.6	104.9	81.7	61.7
1250	83.6	85.3	87.9	89.1	90.7	90.9	92.0	93.3	92.5	94.0	96.8	100.6	101.0	105.2	107.8	106.2	102.5	79.0	59.0
1600	81.1	82.8	85.3	86.5	88.2	88.4	89.4	90.7	89.8	91.4	94.2	97.9	98.5	102.6	105.3	103.6	100.0	76.2	56.2
2000	78.5	80.2	82.7	83.8	85.6	85.7	86.8	88.0	87.1	88.7	91.5	95.2	95.8	100.0	102.7	101.0	97.4	73.3	53.3
2500	75.6	77.3	79.8	80.9	82.7	82.9	83.9	85.1	84.1	85.8	88.6	92.1	92.9	97.0	99.6	97.9	94.4	69.9	49.9
3150	72.5	74.1	76.6	77.8	79.6	79.8	80.7	81.9	80.8	82.6	85.4	88.8	89.6	93.6	96.3	94.5	91.1	66.3	46.3
4000	69.0	70.6	73.1	74.3	76.2	76.3	77.3	78.3	77.2	79.0	81.8	85.1	86.0	89.9	92.5	90.7	87.4	62.2	42.2
5000	65.1	66.6	69.1	70.4	72.3	72.4	73.3	74.3	73.2	75.0	77.8	81.0	82.0	85.8	88.4	86.4	83.2	57.9	37.9
6300	60.8	62.3	64.7	66.1	68.0	68.1	69.0	70.0	68.8	70.6	73.5	76.6	77.6	81.4	83.9	82.0	78.8	53.4	33.4
8000	56.9	58.3	60.7	62.0	64.1	64.1	65.0	65.9	64.6	66.6	69.4	72.5	73.6	77.6	80.2	78.2	75.0	49.8	29.8
10000	52.6	54.0	56.4	57.5	59.7	59.8	60.6	61.4	60.1	62.1	64.9	68.0	69.4	73.5	76.1	74.2	71.0	45.9	25.9
12500	47.8	49.3	51.7	52.6	54.9	54.9	55.7	56.5	55.2	57.3	60.1	63.2	64.8	69.0	71.6	69.9	66.5	41.9	21.9
16000	42.5	44.1	46.5	47.2	49.6	49.6	50.4	51.2	49.9	52.0	54.8	58.0	59.7	64.2	66.8	65.2	61.7	37.6	17.6
20000	36.7	38.4	40.7	41.2	43.7	43.6	44.5	45.4	44.1	46.3	49.1	52.2	54.1	58.9	61.5	60.0	56.4	33.2	13.2
25000	30.3	32.1	34.4	34.7	37.1	37.1	38.1	39.1	37.7	40.0	42.7	46.0	48.0	53.1	55.8	54.4	50.6	28.9	8.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 03
AIRCRAFT CODE 031
OPERATION CODE 01004
PROFILE VERSION A
19 DEC 75
PAGE 63

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	102.7	103.2	105.8	107.1	109.8	108.8	110.0	111.4	111.3	112.1	114.9	119.3	119.1	123.0	126.1	123.9	120.1	97.2	77.2
250	100.6	101.1	103.7	105.0	107.7	106.7	107.9	109.3	108.9	110.0	112.8	117.1	117.0	120.9	124.0	121.8	118.0	95.2	75.2
315	98.4	99.0	101.5	102.8	105.5	104.6	105.8	107.2	106.7	107.9	110.6	114.9	114.8	118.8	121.9	119.7	116.0	93.1	73.1
400	96.3	96.8	99.4	100.7	103.4	102.4	103.6	105.0	104.5	105.7	108.4	112.7	112.7	116.7	119.8	117.6	113.8	91.0	71.0
500	94.1	94.6	97.2	98.5	101.2	100.2	101.4	102.8	102.2	103.5	106.2	110.4	110.5	114.5	117.6	115.5	111.7	88.9	68.8
630	91.9	92.4	95.0	96.2	98.9	98.0	99.1	100.5	99.9	101.2	104.0	108.1	108.2	112.3	115.4	113.2	109.5	86.5	66.5
800	89.6	90.1	92.7	93.9	96.6	95.7	96.8	98.2	97.5	98.9	101.7	105.7	105.9	110.0	113.1	111.0	107.2	84.1	64.1
1000	87.3	87.8	90.3	91.5	94.3	93.3	94.4	95.8	95.0	96.5	99.3	103.2	103.5	107.6	110.8	108.6	104.9	81.7	61.7
1250	84.9	85.3	87.9	89.1	91.9	90.9	92.0	93.3	92.5	94.0	96.8	100.6	101.0	105.2	108.3	106.2	102.5	79.0	59.0
1600	82.4	82.8	85.3	86.5	89.3	88.4	89.4	90.7	89.8	91.4	94.2	97.9	98.5	102.6	105.8	103.6	100.0	76.2	56.2
2000	79.8	80.2	82.7	83.8	86.7	85.7	86.8	88.0	87.1	88.7	91.5	95.2	95.8	100.0	103.2	101.0	97.4	73.3	53.3
2500	76.9	77.3	79.8	80.9	83.9	82.9	83.9	85.1	84.1	85.8	88.6	92.1	92.9	97.0	100.1	97.9	94.4	69.9	49.9
3150	73.8	74.1	76.6	77.8	80.8	79.8	80.7	81.9	80.8	82.6	85.4	88.8	89.6	93.6	96.8	94.5	91.1	66.3	46.3
4000	70.1	70.6	73.1	74.3	77.1	76.3	77.3	78.3	77.2	79.0	81.8	85.1	86.0	89.9	93.0	90.7	87.4	62.2	42.2
5000	65.9	66.6	69.1	70.4	73.0	72.4	73.3	74.3	73.2	75.0	77.8	81.0	82.0	85.8	88.7	86.4	83.2	57.9	37.9
6300	61.4	62.3	64.7	66.1	68.5	68.1	69.0	70.0	68.8	70.6	73.5	76.6	77.6	81.4	84.2	82.0	78.8	53.4	33.4
8000	57.2	58.3	60.7	62.0	64.3	64.1	65.0	65.9	64.6	66.6	69.4	72.5	73.6	77.6	80.3	78.2	75.0	49.8	29.8
10000	52.6	54.0	56.4	57.5	59.7	59.8	60.6	61.4	60.1	62.1	64.9	68.0	69.4	73.5	76.1	74.2	71.0	45.9	25.9
12500	47.8	49.3	51.7	52.6	54.9	54.9	55.7	56.5	55.2	57.3	60.1	63.2	64.8	69.0	71.6	69.9	66.5	41.9	21.9
16000	42.5	44.1	46.5	47.2	49.6	49.6	50.4	51.2	49.9	52.0	54.8	58.0	59.7	64.2	66.8	65.2	61.7	37.6	17.6
20000	36.7	38.4	40.7	41.2	43.7	43.6	44.5	45.4	44.1	46.3	49.1	52.2	54.1	58.9	61.5	60.0	56.4	33.2	13.2
25000	30.3	32.1	34.4	34.7	37.1	37.1	38.1	39.1	37.7	40.0	42.7	46.0	48.0	53.1	55.8	54.4	50.6	28.3	8.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

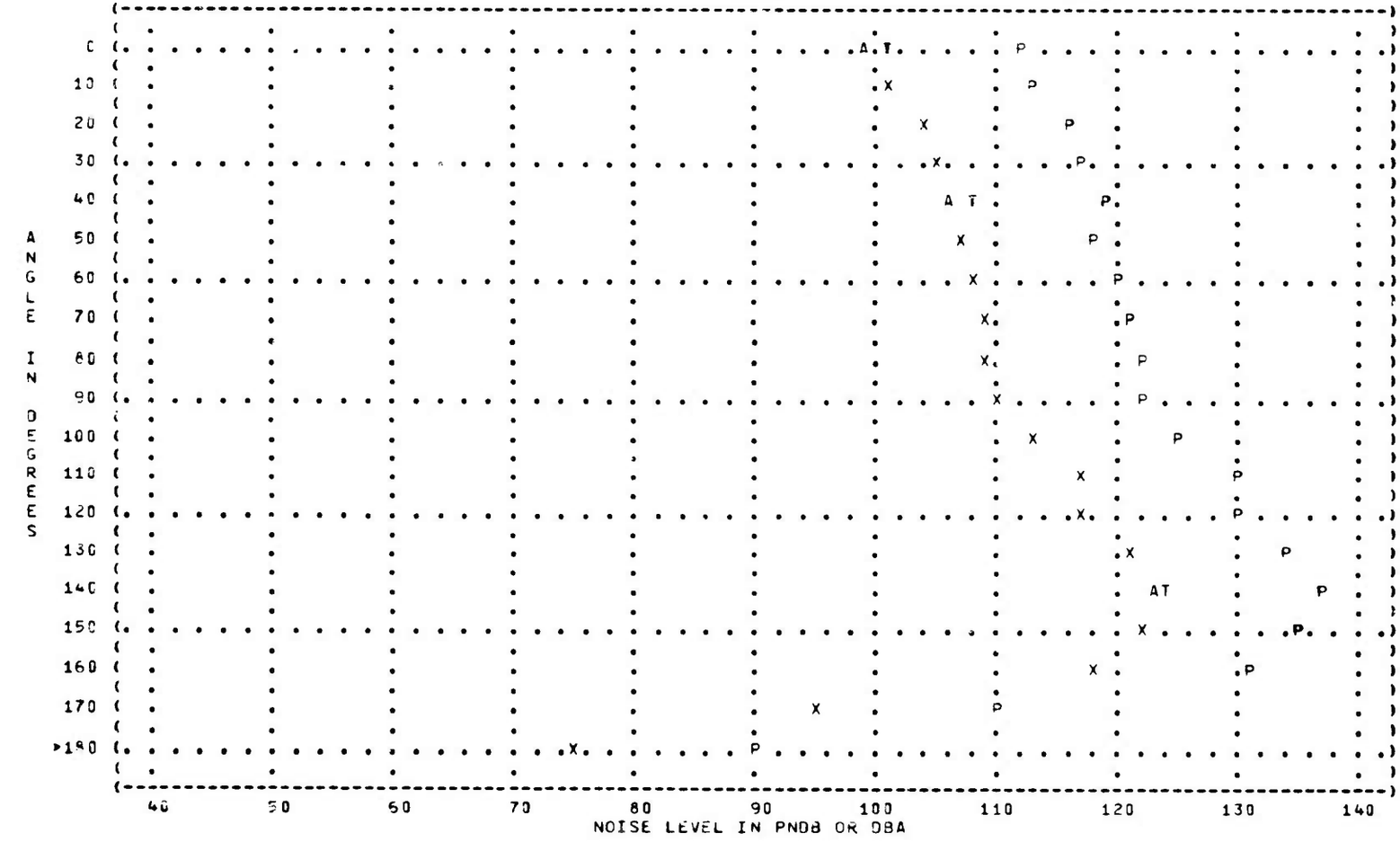
NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-017
RUN 03
AIRCRAFT CODE 031
OPERATION CODE 01004
PROFILE VERSION A
19 DEC 75
PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-018
RUN 01

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
AFTERBURNER, MAX POWER
SINGLE ENGINE
DEFLECTED FLOW

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

AIRCRAFT CODE 091
OPERATION CODE 01003
PROFILE VERSION A
19 DEC 75
PAGE C1

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
50	90	90	91	93	94	94	95	97	97	99	104	104	109	113	114	108	101	95	88
63	93	93	93	96	95	96	96	98	98	99	104	107	112	117	116	108	101	95	88
80	95	94	95	96	96	96	98	98	99	101	108	110	117	119	117	107	101	94	87
100	98	97	100	100	100	100	101	102	103	105	112	116	120	123	121	108	101	95	88
125	99	98	101	102	102	102	103	104	106	107	115	118	123	125	123	108	101	95	88
160	100	101	103	103	104	104	105	106	107	108	117	120	127	127	125	108	101	94	88
200	98	101	101	101	102	103	103	105	106	108	117	119	123	124	123	104	97	91	84
250	99	100	103	102	104	103	103	106	108	110	118	120	124	124	124	101	95	88	81
315	102	101	103	105	107	107	108	109	111	112	122	123	125	127	128	103	96	89	83
400	101	100	102	104	105	106	107	109	109	110	120	122	123	125	126	104	97	91	84
500	98	101	102	103	104	105	105	108	111	112	120	121	121	122	121	101	94	87	81
630	101	102	103	105	107	107	109	111	112	113	122	122	124	125	123	103	96	89	83
800	96	98	100	102	104	104	106	107	110	111	120	119	120	121	118	100	93	87	80
1000	96	98	99	101	103	103	106	108	108	110	119	118	119	119	118	99	92	85	79
1250	94	97	98	100	102	102	105	106	108	109	118	117	118	119	116	98	91	85	78
1600	95	97	98	99	102	102	106	107	108	110	119	117	118	119	116	98	92	85	78
2000	93	96	97	98	102	101	104	107	106	109	117	116	117	118	114	98	91	84	78
2500	91	94	95	96	99	98	101	105	104	106	115	113	114	116	111	94	88	81	74
3150	90	92	94	95	97	97	101	104	104	106	113	112	113	114	111	93	87	80	73
4000	89	90	91	93	95	96	98	102	102	103	111	110	111	112	108	92	86	79	72
5000	85	87	88	89	93	93	96	100	100	101	109	108	108	110	106	89	83	76	69
6300	84	86	87	89	92	92	95	99	99	101	108	107	108	110	105	88	82	75	68
8000	80	82	84	85	88	89	91	96	96	98	105	105	106	107	103	85	78	72	65
10000	77	80	82	83	86	87	89	95	94	96	104	104	105	106	102	83	76	70	63
OVERALL	111	111	113	114	116	116	118	119	121	122	131	132	134	135	135	117	111	104	97

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
AFTERBURNER, MAX POWER
SINGLE ENGINE
DEFLECTED FLOW

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-018
RUN 01
AIRCRAFT CODE 031
OPERATION CODE 01003
PROFILE VERSION A
19 DEC 75
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	120.8	122.5	123.9	125.1	127.5	127.5	129.9	132.5	132.8	134.7	142.9	142.6	144.1	145.5	144.3	125.4	118.7	112.1	105.4
250	118.6	120.3	121.7	123.0	125.4	125.3	127.7	130.3	130.6	132.5	140.7	140.4	142.0	143.4	142.1	123.2	116.6	109.9	103.2
315	116.5	118.1	119.5	120.8	123.1	123.1	125.4	128.0	128.3	130.3	138.5	138.2	139.8	141.2	140.0	121.0	114.4	107.7	101.0
400	114.2	115.8	117.2	118.5	120.9	120.8	123.2	125.7	126.0	128.0	136.2	135.9	137.6	139.0	137.8	118.8	112.1	105.4	98.7
500	111.9	113.4	114.8	116.1	118.5	118.4	120.8	123.3	123.5	125.6	133.8	133.6	135.3	136.7	135.6	116.4	109.8	103.1	96.3
630	109.6	110.9	112.3	113.7	116.0	116.0	118.3	120.7	121.0	123.1	131.3	131.1	132.9	134.3	133.2	114.0	107.3	100.6	93.8
800	107.1	108.3	109.8	111.1	113.4	113.4	115.7	118.1	118.5	120.5	128.7	128.5	130.5	131.9	130.8	111.5	104.8	98.0	91.1
1000	104.5	105.6	107.0	108.5	110.7	110.7	113.0	115.2	115.8	117.8	126.0	125.9	127.9	129.3	128.3	109.0	102.3	95.4	88.4
1250	101.7	102.8	104.2	105.7	107.8	107.9	110.1	112.2	112.9	114.9	123.2	123.2	124.9	126.3	125.4	106.2	99.5	92.6	85.6
1600	98.8	99.9	101.3	102.8	104.9	105.0	107.0	109.1	109.3	111.4	120.2	120.3	122.0	123.4	122.6	103.4	96.6	89.6	82.6
2000	95.7	96.7	98.1	99.7	101.8	101.9	103.9	105.8	106.7	108.4	117.1	117.3	118.9	120.4	119.7	100.3	93.4	86.4	79.4
2500	92.3	93.3	94.7	96.3	98.4	98.5	100.6	102.4	103.3	104.9	113.8	113.8	115.6	116.9	115.9	96.4	89.4	82.5	75.6
3150	88.6	89.7	91.0	92.7	94.8	94.9	96.9	98.7	99.7	101.3	110.2	110.2	112.0	113.3	111.8	92.3	85.3	78.4	71.4
4000	84.4	85.4	86.8	88.5	90.6	90.7	92.8	94.5	95.4	97.1	106.0	106.0	107.7	109.1	107.3	87.8	80.9	74.0	66.9
5000	79.7	80.8	82.1	83.8	85.9	86.0	88.1	89.8	90.8	92.4	101.4	101.3	103.1	104.4	102.7	83.0	76.1	69.1	61.9
6300	74.8	75.8	77.1	78.9	81.0	81.1	83.2	84.8	85.9	87.5	96.5	96.5	98.2	99.5	97.8	78.0	71.1	63.9	56.7
8000	70.7	71.7	73.1	74.8	76.9	77.1	79.1	80.7	81.8	83.4	92.4	92.5	94.3	95.6	94.0	74.0	67.0	59.8	52.2
10000	66.4	67.3	68.7	70.4	72.5	72.7	74.6	76.2	77.3	78.9	88.0	88.1	90.1	91.4	89.8	69.8	62.6	55.1	47.1
12500	61.5	62.4	63.9	65.6	67.6	67.9	69.8	71.3	72.2	74.1	83.3	83.5	85.5	86.8	85.4	65.2	57.7	50.1	41.2
16000	56.2	57.0	58.7	60.2	62.2	62.5	64.3	66.0	67.3	68.8	78.0	78.4	80.5	81.9	80.5	60.0	52.3	43.7	33.7
20000	50.0	51.0	53.0	54.4	56.2	56.5	58.3	59.9	61.6	63.1	72.2	73.0	75.0	76.4	75.6	54.3	45.9	36.7	25.4
25000	42.7	44.3	46.5	47.9	49.4	49.6	51.4	53.0	55.4	56.8	66.1	67.1	68.9	70.4	70.3	48.3	39.2	28.6	14.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-018
RUN 01
AIRCRAFT CODE 031
OPERATION CODE 01003
PROFILE VERSION A
19 DEC 75
PAGE E1

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
AFTERBURNER, MAX POWER
SINGLE ENGINE
DEFLECTED FLOW

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	122.2	122.5	123.9	125.1	127.5	128.5	131.1	133.7	132.8	134.7	142.9	142.6	145.3	146.8	145.5	125.4	118.7	112.1	105.4
250	120.0	120.3	121.7	123.0	125.4	126.3	128.9	131.4	130.6	132.5	140.7	140.4	143.1	144.6	143.4	123.2	116.6	109.9	103.2
315	117.8	118.1	119.5	120.8	123.1	124.1	126.7	129.2	128.3	130.3	138.5	138.2	141.0	142.4	141.3	121.0	114.4	107.7	101.0
400	115.6	115.8	117.2	118.5	120.9	121.8	124.4	126.8	126.0	128.0	136.2	135.9	138.7	140.2	139.1	118.8	112.1	105.4	98.7
500	113.3	113.4	114.8	116.1	118.5	119.5	122.0	124.4	123.5	125.6	133.8	133.6	136.5	137.9	136.8	116.4	109.8	103.1	96.3
630	110.9	110.9	112.3	113.7	116.0	117.0	119.6	121.9	121.0	123.1	131.3	131.1	134.1	135.6	134.5	114.0	107.3	100.6	93.8
800	108.5	108.3	109.8	111.1	113.4	114.4	117.0	119.2	118.5	120.5	128.7	128.5	131.6	133.1	132.1	111.5	104.8	98.0	91.1
1000	105.9	105.6	107.0	108.5	110.7	111.7	114.3	116.4	115.8	117.8	126.0	125.9	129.0	130.5	129.5	109.0	102.3	95.4	88.4
1250	103.1	102.8	104.2	105.7	107.8	108.9	111.3	113.4	112.9	114.9	123.2	123.2	126.1	127.5	126.6	106.2	99.5	92.6	85.6
1600	100.2	99.9	101.3	102.8	104.9	106.0	108.3	110.2	109.8	111.8	120.2	120.3	123.2	124.7	123.8	103.4	96.6	89.6	82.6
2000	97.1	96.7	98.1	99.7	101.8	102.9	105.2	107.0	106.7	108.4	117.1	117.3	120.1	121.7	120.9	100.3	93.4	86.4	79.4
2500	93.7	93.3	94.7	96.3	98.4	99.6	101.8	103.5	103.3	104.9	113.8	113.8	116.8	118.2	117.2	96.4	89.4	82.5	75.6
3150	90.0	89.7	91.0	92.7	94.8	95.9	98.2	99.9	99.7	101.3	110.2	110.2	113.1	114.5	113.0	92.3	85.3	78.4	71.4
4000	85.5	85.4	86.8	88.5	90.6	91.5	93.8	95.4	95.4	97.1	106.0	106.0	108.7	110.1	108.3	87.8	80.9	74.0	66.9
5000	80.5	80.8	82.1	83.8	85.9	86.6	88.8	90.5	90.8	92.4	101.4	101.3	103.8	105.2	103.4	83.0	76.1	69.1	61.9
6300	75.3	75.8	77.1	78.9	81.0	81.5	83.7	85.3	85.9	87.5	96.5	96.5	98.7	100.0	98.3	78.0	71.1	63.9	56.7
8000	71.0	71.7	73.1	74.8	76.9	77.3	79.3	80.9	81.8	83.4	92.4	92.5	94.6	95.8	94.2	74.0	67.0	59.6	52.2
10000	66.4	67.3	68.7	70.4	72.5	72.7	74.6	76.2	77.3	78.9	88.0	88.1	90.1	91.4	89.6	69.8	62.6	55.1	47.1
12500	61.5	62.4	63.9	65.6	67.6	67.9	69.8	71.3	72.5	74.1	83.3	83.5	85.5	86.8	85.4	65.2	57.7	50.1	41.2
16000	56.2	57.0	58.7	60.2	62.2	62.5	64.3	66.0	67.3	68.8	78.0	78.4	80.5	81.9	80.5	60.0	52.3	43.7	33.7
20000	50.0	51.0	53.0	54.4	56.2	56.5	58.3	59.9	61.6	63.1	72.2	73.0	75.0	76.4	75.6	54.3	45.9	36.7	25.4
25000	42.7	44.3	46.5	47.9	49.4	49.6	51.4	53.0	55.4	56.8	66.1	67.1	68.9	70.4	70.3	48.3	39.2	28.6	14.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-018
RUN 01
AIRCRAFT CODE 031
OPERATION CODE 01003
PROFILE VERSION A
19 DEC 75
PAGE F1

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
AFTERBURNER, MAX POWER
SINGLE ENGINE
DEFLECTED FLOW

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	108.4	110.1	111.3	112.9	115.2	115.2	117.5	119.5	120.5	122.2	130.7	130.4	131.6	132.8	131.3	111.6	104.9	98.2	91.6
250	106.3	107.8	109.2	110.8	113.1	113.1	115.4	117.4	118.4	120.0	128.6	128.3	129.5	130.7	129.2	109.5	102.8	96.1	89.5
315	104.2	105.7	107.1	108.7	111.9	110.9	113.3	115.2	116.2	117.9	126.5	126.2	127.4	128.5	127.1	107.4	100.7	94.0	87.4
400	102.1	103.6	104.9	106.5	108.8	108.8	111.1	113.0	114.0	115.7	124.3	124.0	125.2	126.4	125.0	105.2	98.5	91.9	85.2
500	99.9	101.4	102.7	104.3	106.6	106.6	108.9	110.7	111.8	113.5	122.1	121.8	123.0	124.2	122.9	103.0	96.3	89.7	83.0
630	97.7	99.1	100.5	102.1	104.3	104.3	106.6	108.4	109.5	111.2	119.8	119.6	120.8	121.9	120.7	100.7	94.1	87.4	80.7
800	95.4	96.8	98.2	99.8	102.0	102.0	104.3	106.1	107.2	108.9	117.5	117.3	118.5	119.7	118.4	98.4	91.7	85.1	78.4
1000	93.0	94.4	95.8	97.5	99.6	99.7	101.9	103.6	104.8	106.5	115.1	114.9	116.1	117.3	116.1	96.0	89.3	82.7	76.0
1250	90.6	91.9	93.3	95.0	97.1	97.2	99.4	101.1	102.3	104.0	112.7	112.4	113.6	114.8	113.6	93.5	86.8	80.2	73.5
1600	88.0	89.3	90.7	92.4	94.6	94.6	96.8	98.5	99.8	101.4	110.1	109.9	111.0	112.2	111.1	90.9	84.2	77.6	70.9
2000	85.4	86.7	88.1	89.8	91.9	92.0	94.1	95.8	97.1	98.7	107.4	107.2	108.3	109.5	108.4	88.2	81.5	74.9	68.2
2500	82.4	83.8	85.1	86.9	89.0	89.1	91.2	92.8	94.2	95.7	104.5	104.3	105.4	106.5	105.3	85.2	78.5	71.8	65.2
3150	79.3	80.6	81.9	83.7	85.8	85.9	88.0	89.6	91.0	92.6	101.3	101.1	102.1	103.3	101.9	81.9	75.2	68.6	61.9
4000	75.6	77.0	78.3	80.1	82.3	82.3	84.5	86.0	87.5	89.0	97.7	97.5	98.5	99.6	98.1	78.2	71.6	64.9	58.2
5000	71.5	72.9	74.2	76.0	78.2	78.3	80.4	81.9	83.5	85.0	93.7	93.4	94.4	95.4	93.9	74.1	67.4	60.8	54.1
6300	67.1	68.6	69.9	71.7	73.9	73.9	76.0	77.5	79.1	80.6	89.3	89.0	90.0	91.0	89.4	69.7	63.0	56.4	49.7
8000	63.3	64.6	66.0	67.8	69.9	70.0	72.0	73.5	75.1	76.6	85.3	85.1	86.2	87.2	85.7	65.8	59.1	52.4	45.8
10000	59.1	60.4	61.8	63.6	65.6	65.7	67.6	69.2	70.8	72.2	81.0	80.9	82.0	83.0	81.7	61.6	54.9	48.2	41.6
12500	54.6	55.7	57.2	58.9	60.9	61.0	62.8	64.4	66.1	67.5	76.3	76.3	77.4	78.5	77.3	57.0	50.3	43.7	37.0
16000	49.6	50.6	52.2	53.9	55.7	55.9	57.6	59.2	60.9	62.3	71.1	71.3	72.4	73.6	72.5	52.0	45.4	38.7	32.0
20000	44.1	45.1	46.6	48.3	50.0	50.2	51.8	53.5	55.2	56.5	65.4	65.7	66.9	68.1	67.3	46.7	40.0	33.4	26.7
25000	38.1	38.9	40.6	42.1	43.7	43.9	45.4	47.1	48.8	50.2	59.1	59.6	61.0	62.2	61.6	41.0	34.4	27.7	21.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-018
RUN 01
AIRCRAFT CODE 031
OPERATION CODE 01003
PROFILE VERSION A
19 DEC 75
PAGE G1

NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
AFTERBURNER, MAX POWER
SINGLE ENGINE
DEFLECTED FLOW

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	109.8	110.0	111.3	112.9	115.2	116.2	118.8	120.7	120.6	122.2	130.7	130.4	132.7	134.0	132.6	111.6	104.9	98.2	91.6
250	107.7	107.8	109.2	110.8	113.1	114.1	116.7	118.5	118.4	120.0	128.6	128.3	130.6	131.9	130.5	109.5	102.8	96.1	89.5
315	105.6	105.7	107.1	108.7	110.9	111.9	114.5	116.4	116.2	117.9	126.5	126.2	128.5	129.8	128.4	107.4	100.7	94.0	87.4
400	103.5	103.6	104.9	106.5	108.8	109.8	112.3	114.2	114.0	115.7	124.3	124.0	126.4	127.6	126.3	105.2	98.5	91.9	85.2
500	101.3	101.4	102.7	104.3	106.6	107.6	110.1	111.9	111.8	113.5	122.1	121.8	124.2	125.4	124.1	103.0	96.3	89.7	83.0
630	99.0	99.1	100.5	102.1	104.3	105.3	107.9	109.6	109.5	111.2	119.8	119.6	121.9	123.2	121.9	100.7	94.1	87.4	80.7
800	96.8	96.8	98.2	99.8	102.0	103.0	105.5	107.2	107.2	108.9	117.5	117.3	119.6	120.9	119.7	98.4	91.7	85.1	78.4
1000	94.4	94.4	95.8	97.5	99.6	100.7	103.1	104.8	104.8	106.5	115.1	114.9	117.3	118.5	117.4	96.0	89.3	82.7	76.0
1250	92.0	91.9	93.3	95.0	97.1	98.2	100.7	102.3	102.3	104.0	112.7	112.4	114.8	116.0	114.9	93.5	86.8	80.2	73.5
1600	89.4	89.3	90.7	92.4	94.6	95.6	98.1	99.6	99.8	101.4	110.1	109.9	112.2	113.4	112.3	90.9	84.2	77.6	70.9
2000	86.8	86.7	88.1	89.8	91.9	93.0	95.4	96.9	97.1	98.7	107.4	107.2	109.5	110.8	109.7	88.2	81.5	74.9	68.2
2500	83.8	83.8	85.1	86.9	89.0	90.1	92.4	94.0	94.2	95.7	104.5	104.3	106.5	107.8	106.5	85.2	78.5	71.8	65.2
3150	80.6	80.6	81.9	83.7	85.8	86.9	89.3	90.8	91.0	92.6	101.3	101.1	103.3	104.5	103.2	81.9	75.2	68.6	61.9
4000	76.7	77.0	78.3	80.1	82.3	83.1	85.5	86.9	87.5	89.0	97.7	97.5	99.5	100.6	99.1	78.2	71.6	64.9	58.2
5000	72.3	72.9	74.2	76.0	78.2	78.9	81.1	82.6	83.5	85.0	93.7	93.4	95.1	96.2	94.6	74.1	67.4	60.8	54.1
6300	67.7	68.6	69.9	71.7	73.9	74.3	76.5	78.0	79.1	80.6	89.3	89.0	90.5	91.5	89.9	69.7	63.0	56.4	49.7
8000	63.6	64.6	66.0	67.8	69.9	70.2	72.2	73.7	75.1	76.6	85.3	85.1	86.4	87.4	85.9	65.8	59.1	52.4	45.8
10000	59.1	60.4	61.8	63.6	65.6	65.7	67.6	69.2	70.8	72.2	81.0	80.9	82.0	83.0	81.7	61.6	54.9	48.2	41.6
12500	54.6	55.7	57.2	58.9	60.9	61.0	62.8	64.4	66.1	67.5	76.3	76.3	77.4	78.5	77.3	57.0	50.3	43.7	37.0
16000	49.6	50.6	52.2	53.9	55.7	55.9	57.6	59.2	60.9	62.3	71.1	71.3	72.4	73.6	72.5	52.0	45.4	38.7	32.0
20000	44.1	45.1	46.6	48.3	50.0	50.2	51.8	53.5	55.2	56.5	65.4	65.7	66.9	68.1	67.3	46.7	40.0	33.4	26.7
25000	38.1	38.9	40.6	42.1	43.7	43.9	45.4	47.1	48.8	50.2	59.1	59.6	61.0	62.2	61.6	41.0	34.4	27.7	21.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

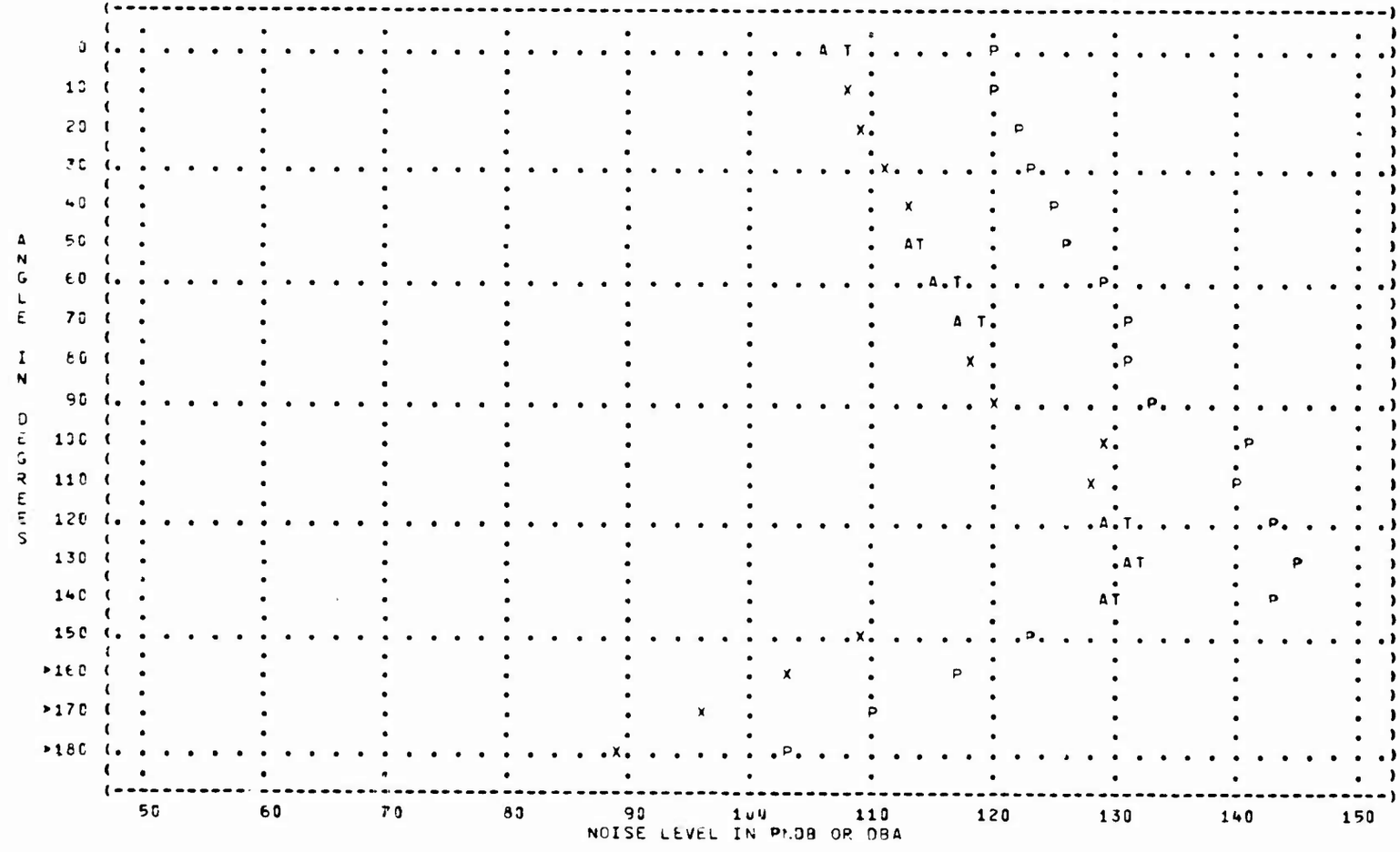
NOISE SOURCE/SUBJECT:
F-4C AIRCRAFT
ENG. J79-GE-15
GROUND RUNUP

OPERATION:
AFTERBURNER, MAX POWER
SINGLE ENGINE
DEFLECTED FLOW

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-018
RUN 01
AIRCRAFT CODE 031
OPERATION CODE 01003
PROFILE VERSION A
19 DEC 75
PAGE J1

P=PNLT A=AL T=ALT



▸ SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF F-5A,B AIRCRAFT F-5A,B AIRCRAFT F-5A,B AIRCRAFT F-5A,B AIRCRAFT F-5A,B AIRCRAFT F-5A,B USAF

NOISE PRODUCED ON THE GROUND BY

F-5A,B AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 509
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING	PAGE
AFTERBURNER 101% RPM	229-237
TAKEOFF 101% RPM	238-246
CRUISE 86% RPM	247-254
APPROACH 82% RPM	256-264

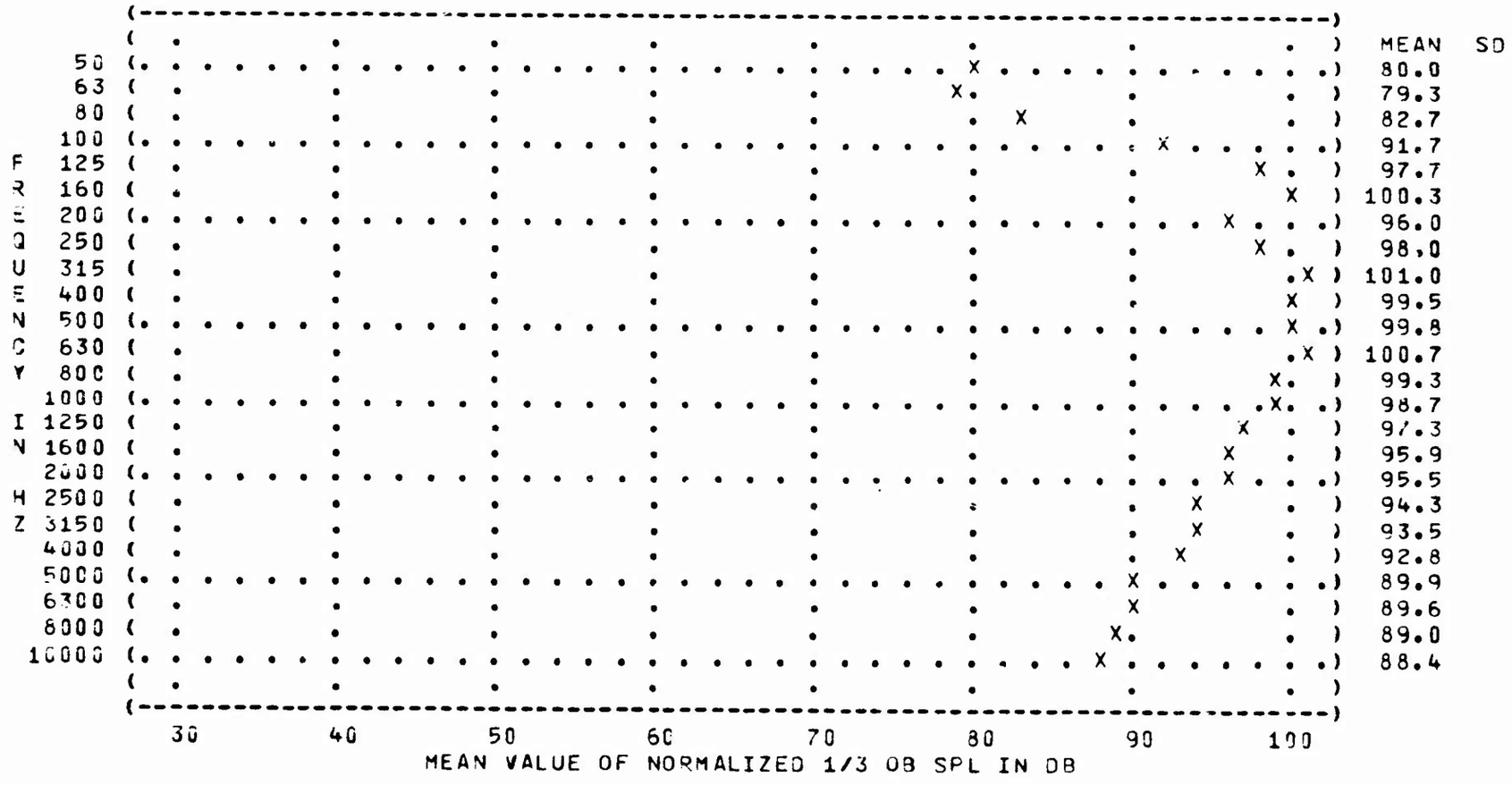
FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

17 FEB 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF F-5A,B AIRCRAFT F-5A,B AIRCRAFT F-5A,B AIRCRAFT F-5A,B AIRCRAFT F-5A,B AIRCRAFT F-5A,B USAF



F-5A,B AFTERBURNER POWER 101 % RPM

AIRSPEED = 350 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-509-101-170276

PNLT = 121.0 PNDB
PNL = 120.4 PNDB
ALT = 108.5 DBA
AL = 107.9 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-5A,B

OPERATION:
AFTERBURNER POWER
101 % RPM
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 509
OPS CODE: 101
PROFILE VER: A
17 FEB 76
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	94	93	97	106	112	115	110	112	115	114	114	116	114	114	113	112	112	112	112	114	112	115	120	127
250	92	91	95	104	110	112	108	110	113	112	112	113	112	112	111	110	110	110	110	111	109	112	117	123
315	90	89	93	102	108	110	106	108	111	110	110	111	110	110	109	108	108	107	108	109	107	109	113	119
400	88	87	91	100	106	108	104	106	109	108	108	109	108	108	107	106	106	105	105	106	104	106	109	115
500	86	85	89	98	104	106	102	104	107	106	106	107	106	106	104	103	103	103	103	103	101	103	105	110
630	84	83	87	96	102	104	100	102	105	104	104	105	104	103	102	101	101	100	100	100	98	99	101	104
800	82	81	85	94	100	102	98	100	103	102	102	103	102	101	100	98	98	97	97	97	94	95	95	97
1000	80	79	83	92	98	100<	96	98	101	100	100	101	99	99	97	96	96	94	94	93	90	90	89	88
1250	78	77	81	90	96	98	94	96	99	97	98	98	97	96	95	93	93	91	90	89	85	84	82	79
1600	76	75	79	88	94	96	92	94	97	95	95	96	95	94	92	90	90	88	86	84	80	77	73	67
2000	74	73	77	86	91	94	90	92	94	93	93	94	92	91	89	87	86	84	81	78	74	69	62	52
2500	72	71	75	83	89	92	88	89	92	91	91	91	89	88	86	84	82	79	76	72	67	60	50	34
3150	70	69	72	81	87	90	85	87	90	88	88	88	86	85	83	80	78	75	70	64	58	49	34	13
4000	68	67	70	79	85	88	83	85	87	86	85	86	83	82	79	76	73	69	63	55	48	35	15	
5000	66	65	68	77	83	85	81	82	85	83	83	83	80	78	75	71	68	62	55	45	35	18		
6300	64	63	66	75	81	83	78	80	82	80	79	79	76	74	70	66	61	54	45	31	20			
8000	61	61	64	73	78	81	76	77	80	77	76	76	72	69	65	59	54	45	33	15	2			
10000	59	58	62	70	76	78	73	74	76	74	72	71	68	64	59	52	45	34	19					
12500	57	56	59	68	73	75	70	71	73	70	68	67	62	58	51	43	34	20	1					
16000	55	54	57	65	71	72	67	68	70	66	64	61	56	50	43	32	21	3						
20000	53	51	54	63	68	69	64	64	65	61	58	55	48	42	32	19	5							
25000	50	49	52	60	65	66	60	60	61	56	52	48	40	31	19	3								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-5A,B

OPERATION:
AFTERBURNER POWER
101 % RPM

AIRSPEED = 350 KNOTS

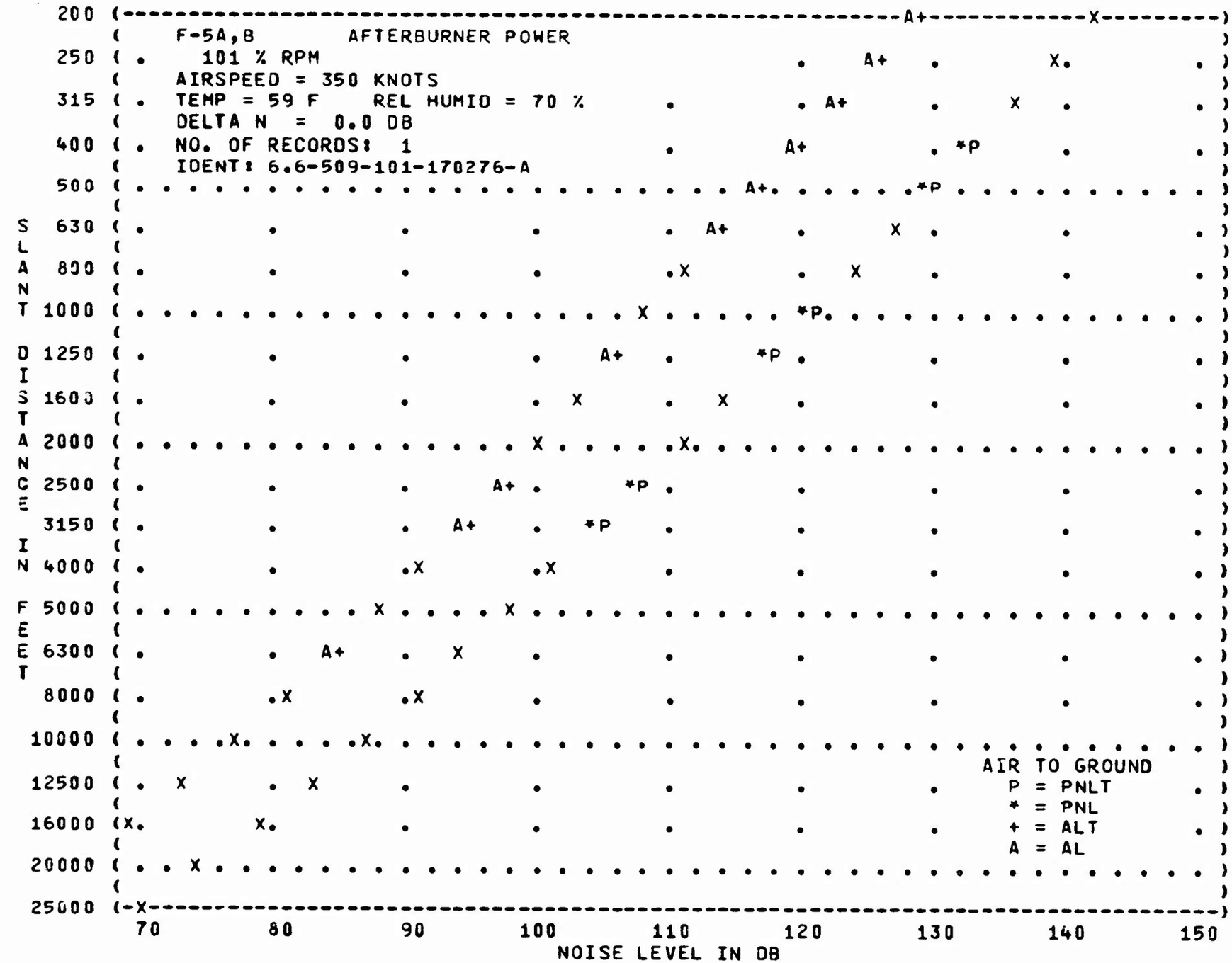
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

DELTA N = 0.0 DB

A/C CODE: 509
OPS CODE: 101
PROFILE VER: A
17 FEB 76
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	128.0	128.5	141.5	142.1	124.9	125.7	129.4
250	125.1	125.7	138.7	139.3	123.0	123.8	127.5
315	122.2	122.8	135.7	136.3	121.1	121.9	125.5
400	119.2	119.8	132.5	133.1	119.1	119.9	123.3
500	116.3	116.8	129.5	130.1	117.1	117.9	121.4
630	113.4	114.0	126.6	127.2	115.3	116.1	119.4
800	110.6	111.2	123.6	124.1	113.5	114.3	117.4
1000	107.9	108.5	120.4	121.0	111.8	112.6	115.3
1250	105.2	105.8	117.2	117.8	110.1	110.9	113.1
1600	102.5	103.1	113.9	114.5	108.4	109.2	110.8
2000	99.8	100.4	110.5	111.1	106.7	107.5	108.4
2500	97.0	97.5	107.3	107.9	104.8	105.6	106.2
3150	94.0	94.6	104.1	104.7	102.9	103.7	104.0
4000	91.0	91.4	100.9	101.3	100.9	101.5	101.6
5000	87.8	88.1	97.6	97.9	98.7	99.2	99.1
6300	84.4	84.7	94.1	94.4	96.3	96.6	96.5
8000	80.9	81.0	90.6	90.7	93.8	94.0	93.8
10000	77.2	77.2	86.9	86.9	91.1	91.1	90.9
12500	73.3	73.3	82.9	82.9	88.1	88.1	88.0
16000	69.1	69.1	78.7	78.7	85.0	85.0	84.8
20000	64.7	64.7	74.1	74.1	81.6	81.6	81.2
25000	60.1	60.1	69.5	69.5	78.0	78.0	77.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-5A,B AFTERBURNER POWER
101 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-509-101-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

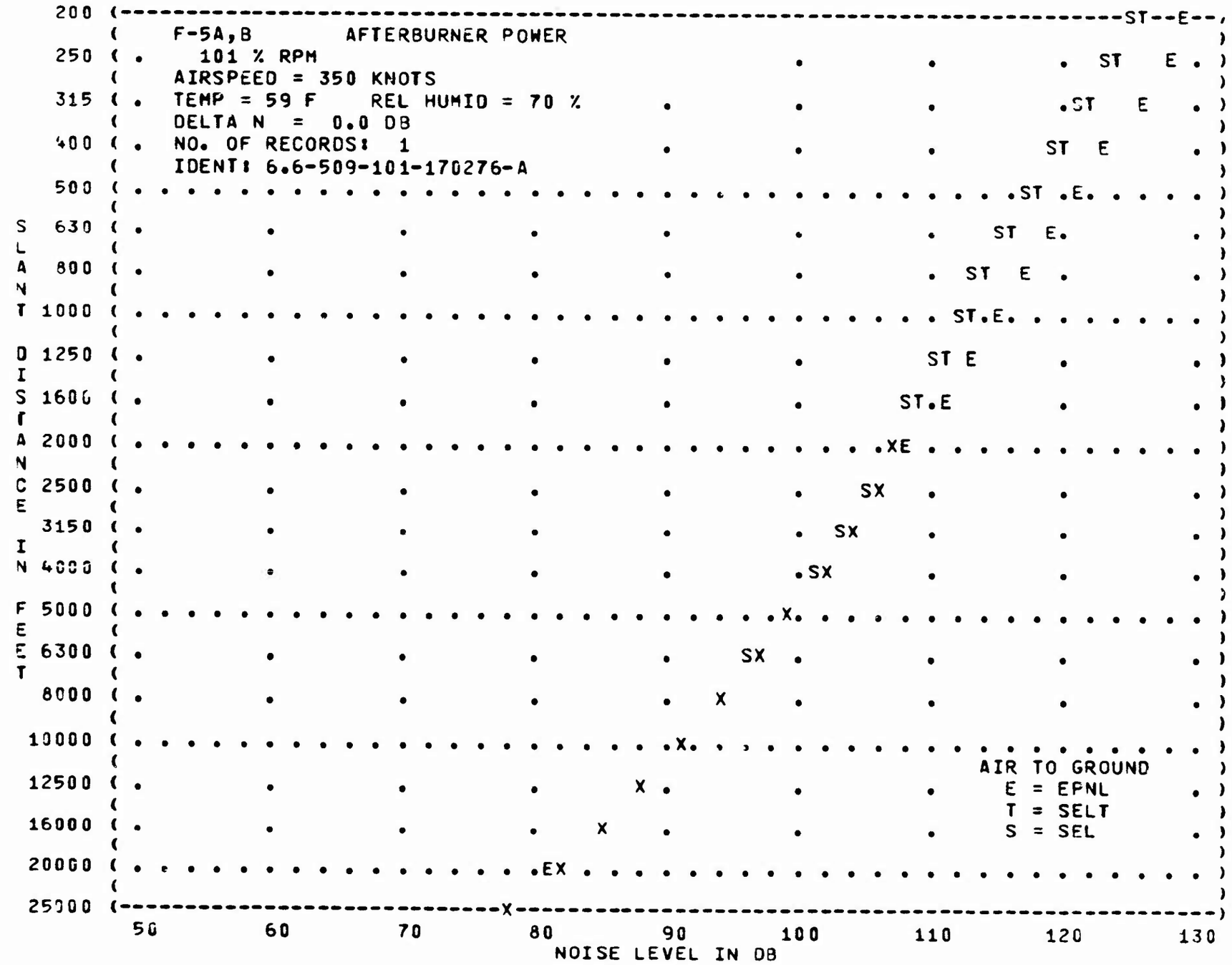

F-5A,B AFTERBURNER POWER
101 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-509-101-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-5A,B

OPERATION: AFTERBURNER POWER 101 % RPM; AIRSPEED = 350 KNOTS

METEOROLOGY: TEMP = 59 F; REL HUMID = 70 %; DELTA N = 0.0 DB

A/C CODE: 509
OPS CODE: 101
PROFILE VER: A
17 FEB 76
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	89	88	92	101	107	110	105	107	110	109	109	111	109	109	108	107	107	107	107	109	107	110	115	122
250	87	86	90	99	105	107	103	105	108	107	107	108	107	107	106	105	105	105	105	106	104	107	112	118
315	85	84	88	97	103	105	101	103	106	105	105	106	105	105	104	103	103	102	103	104	102	104	108	114
400	83	82	86	95	101	103	99	101	104	103	103	104	103	103	102	101	101	100	100	101	99	101	104	110
500	81	80	84	93	99	101	97	99	102	101	101	102	101	101	99	98	98	98	98	98	96	98	100	105
630	79	78	82	91	96	98	94	96	100	99	99	100	99	98	97	96	96	95	95	95	93	94	96	99
800	77	76	80	88	93	95	91	94	98	97	97	98	97	96	95	93	93	92	92	92	89	90	90	92
1000	75	74	78	85	90	93<	88	91	96	95	95	96	94	94	92	91	91	89	89	88	85	85	84	83
1250	73	72	75	82	87	89	85	88	93	92	93	93	92	91	90	88	88	86	85	84	80	79	77	74
1600	71	69	71	79	84	86	82	84	90	90	90	91	90	89	87	85	85	83	81	79	75	72	68	62
2000	68	66	68	75	80	82	78	80	86	88	88	89	87	86	84	82	81	79	76	73	69	64	57	47
2500	64	62	63	71	76	78	73	76	82	84	85	86	84	83	81	79	77	74	71	67	62	55	45	29
3150	60	57	59	66	71	73	68	71	78	80	82	83	81	80	78	75	73	70	65	59	53	44	29	8
4000	56	52	53	60	65	67	63	65	72	75	78	80	78	77	74	71	68	64	58	50	43	30	10	
5000	51	47	49	56	60	62	58	60	66	70	74	76	75	73	70	66	63	57	50	40	30	13		
6300	46	43	44	51	56	57	53	55	60	64	69	71	70	69	65	61	56	49	40	26	15			
8000	43	41	42	49	53	55	50	52	58	61	66	68	66	64	60	54	49	40	28	10				
10000	41	38	40	46	51	52	48	49	54	58	62	63	62	59	54	47	40	29	14					
12500	39	36	37	44	48	50	45	46	51	54	58	59	56	53	46	38	29	15						
16000	37	34	35	41	46	47	42	43	48	50	54	53	50	45	38	27	16							
20000	35	31	32	39	43	44	38	39	43	45	48	47	42	37	27	14								
25000	32	29	30	36	40	41	35	35	39	40	42	40	34	26	14									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-5A,B

OPERATION:
AFTERBURNER POWER
101 % RPM

AIRSPEED = 350 KNOTS

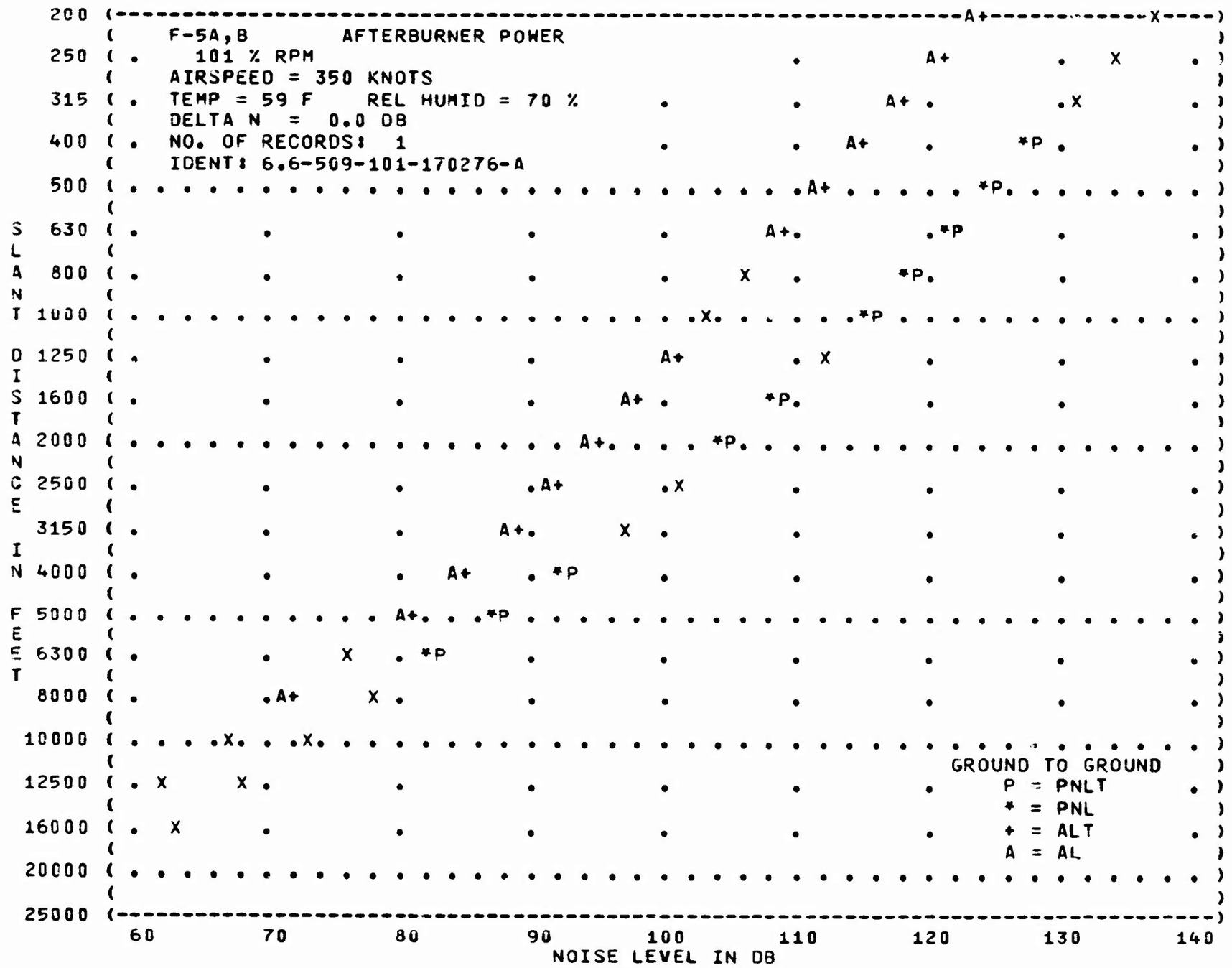
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

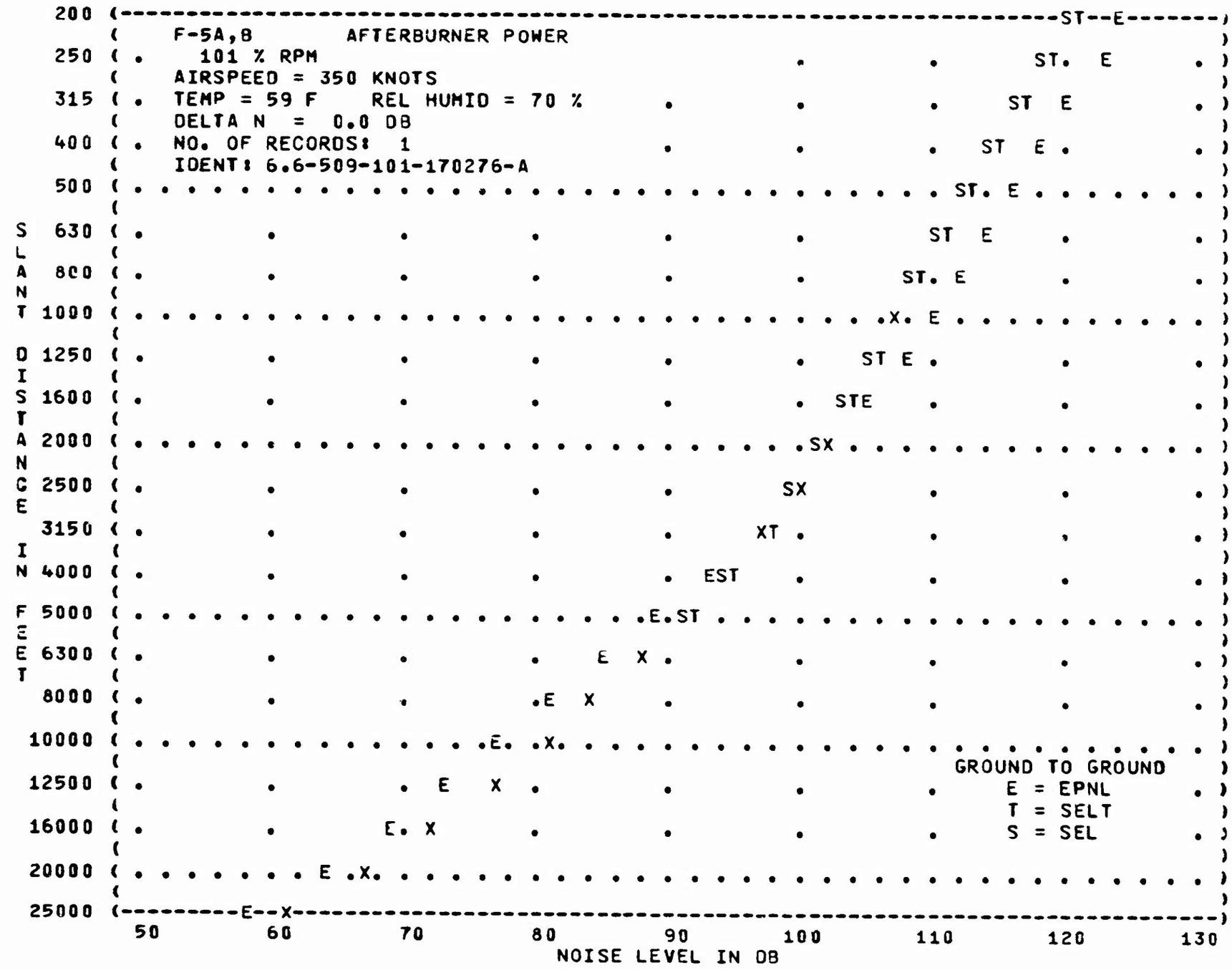
DELTA N = 0.0 DB

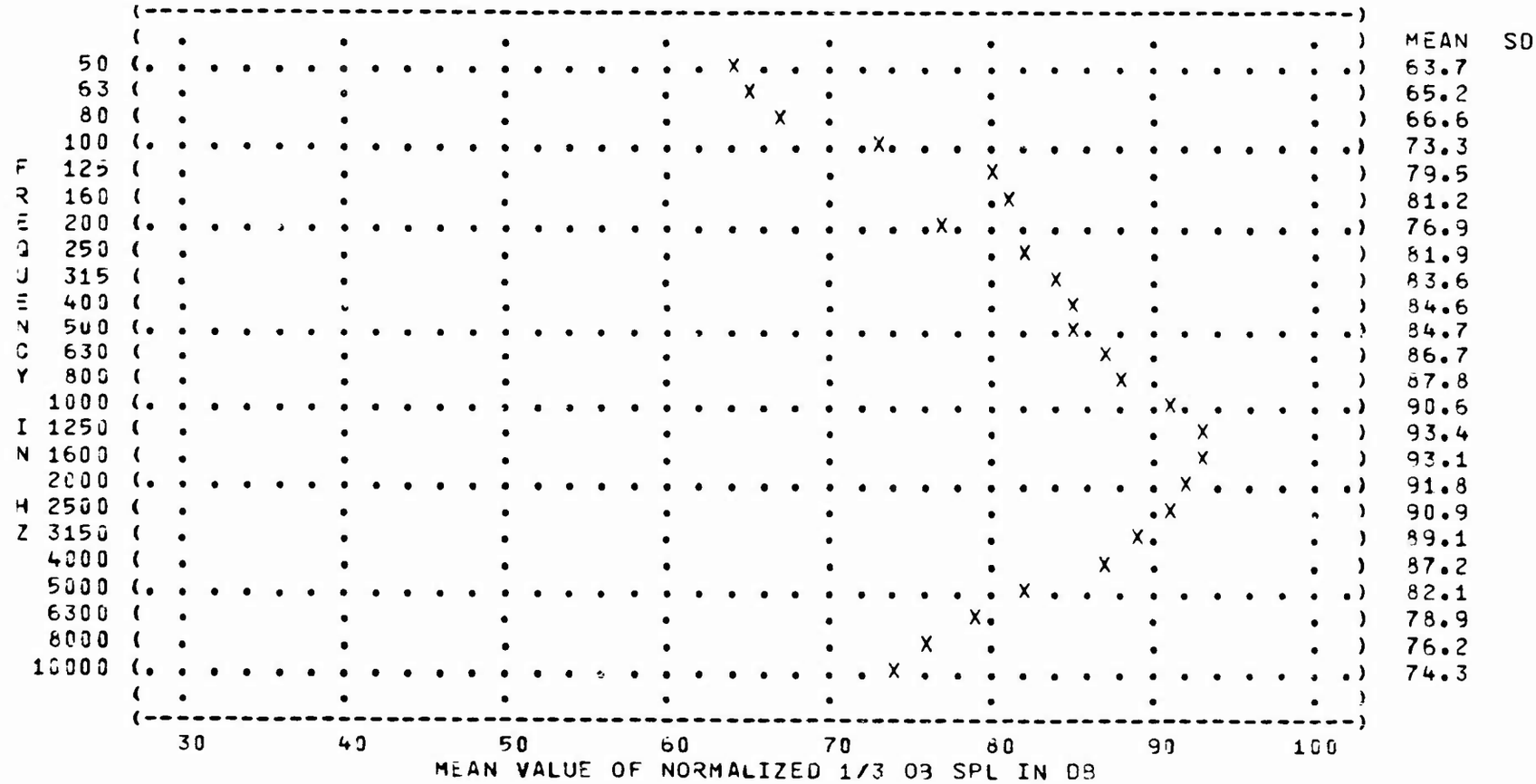
A/C CODE: 509
OPS CODE: 101
PROFILE VER: A
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	123.0	123.5	136.5	137.1	119.9	120.6	124.3
250	120.1	120.7	133.7	134.2	118.0	118.8	122.5
315	117.2	117.7	130.7	131.2	116.1	116.8	120.5
400	114.2	114.7	127.5	128.0	114.1	114.8	118.3
500	111.3	111.8	124.4	125.0	112.1	112.9	116.3
630	108.4	108.9	121.5	122.0	110.3	111.0	114.3
800	105.6	106.1	118.4	118.9	108.5	109.2	112.2
1000	102.9	103.4	115.2	115.7	106.7	107.5	110.0
1250	100.1	100.6	111.8	112.3	105.0	105.8	107.6
1600	97.3	97.9	108.2	108.8	103.2	104.0	105.0
2000	94.5	95.0	104.5	105.0	101.4	102.1	102.3
2500	91.4	91.9	100.8	101.3	99.3	100.0	99.6
3150	88.1	88.6	96.8	97.4	97.0	97.7	96.7
4000	84.4	84.8	92.4	92.8	94.3	94.9	93.0
5000	80.2	80.5	87.5	87.8	91.1	91.5	89.0
6300	75.7	75.9	82.3	82.5	87.6	87.9	84.7
8000	71.4	71.6	77.9	78.0	84.3	84.5	81.1
10000	66.8	66.8	73.2	73.2	80.7	80.7	77.3
12500	61.8	61.8	68.1	68.1	76.7	76.7	73.2
16000	56.3	56.3	62.5	62.5	72.2	72.2	68.6
20000	50.2	50.2	56.6	56.6	67.1	67.1	63.7
25000	43.6	43.6	49.8	49.8	61.5	61.5	57.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-5A,B AFTERBURNER POWER
101 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-509-101-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-5A,B AFTERBURNER POWER
101 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-509-101-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-5A,B TAKEOFF POWER 101 % RPM

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-509-103-170276

PNLT = 113.5 PNDB
PNL = 113.0 PNDB
ALT = 101.7 DBA
AL = 101.2 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-5A,B

OPERATION:
TAKEOFF POWER
101 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 509
OPS CODE: 103
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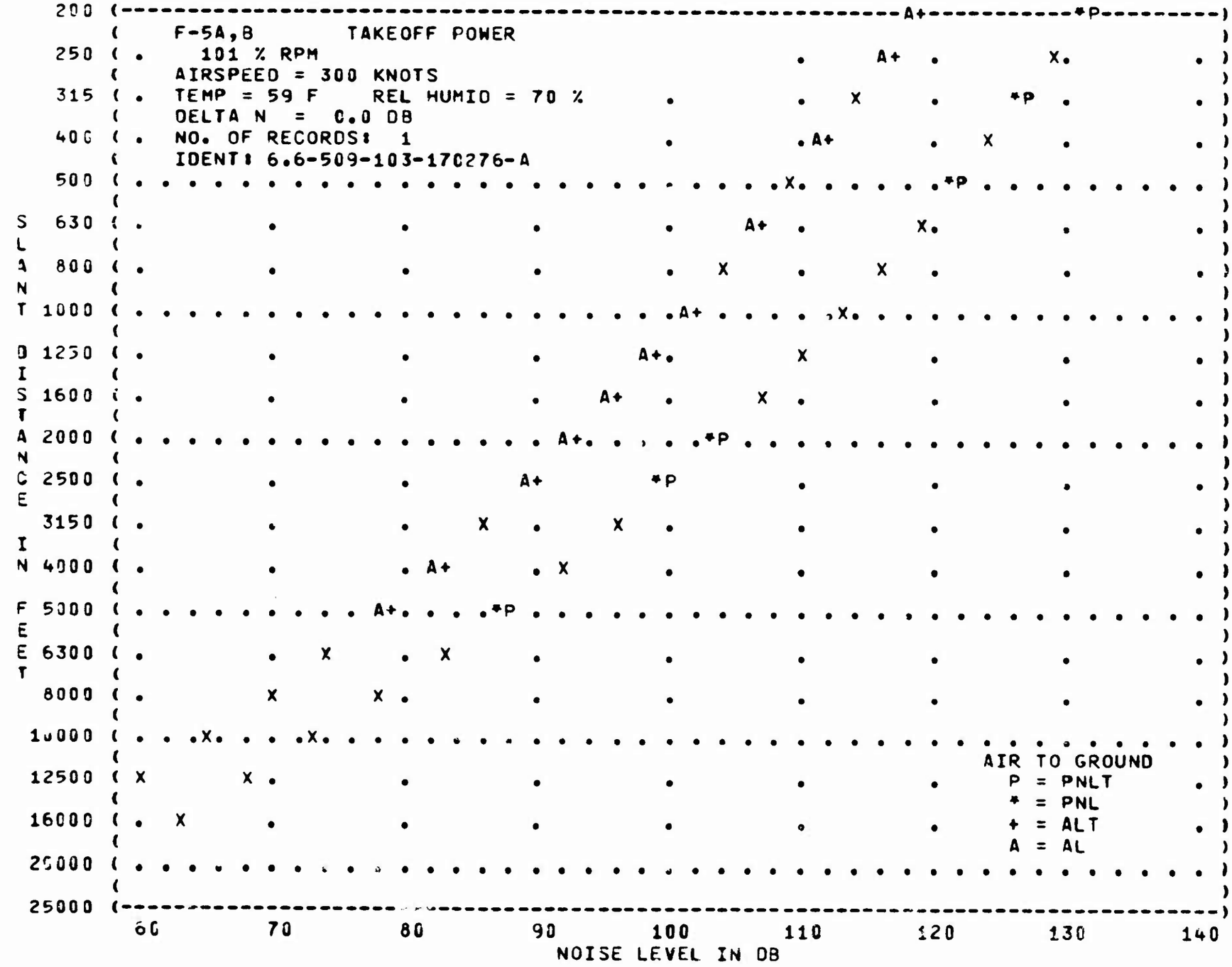
SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	78	79	81	87	94	95	91	96	98	99	99	101	103	106	109	109	108	108	107	107	103	103	105	110
250	76	77	79	85	92	93	89	94	96	97	97	99	101	104	107	107	106	106	105	105	101	10	102	107
315	74	75	77	83	90	91	87	92	94	95	95	97	99	102	105	105	104	104	103	102	98	98	99	103
400	72	73	75	81	88	89	85	90	92	93	93	95	97	99	103	103	102	101	100	100	96	95	95	99
500	70	71	73	79	86	87	83	88	90	91	91	93	94	97	100	100	99	99	98	97	93	91	91	94
630	68	69	71	77	84	85	81	86	88	89	89	91	92	95	98	98	97	96	95	94	89	88	87	88
800	66	67	69	75	82	83	79	84	86	87	87	89	90	93	96	96	94	94	92	91	86	84	82	82
1000	64	65	67	73	80	81<	77	82	84	85	85	87	88	91	93	93	92	91	89	87	82	79	76	74
1250	62	63	65	71	77	79	75	80	81	82	83	84	85	88	91	90	89	88	86	83	78	74	69	65
1600	60	61	63	69	75	77	73	78	79	80	80	82	83	86	88	88	86	85	82	79	73	67	61	54
2000	58	59	60	67	73	75	71	76	77	78	78	80	81	83	86	85	83	81	78	74	67	60	52	41
2500	56	57	58	65	71	73	68	73	75	76	76	77	78	80	83	81	79	77	73	68	60	52	40	25
3150	54	55	56	63	69	71	66	71	73	73	73	75	75	77	79	78	75	72	67	61	53	41	26	6
4000	51	53	54	61	67	69	64	69	71	71	71	72	72	74	76	74	71	67	61	52	43	29	9	
5000	49	51	52	59	65	66	62	66	68	68	68	69	69	71	72	70	66	61	53	43	32	14		
6300	47	49	50	57	63	64	59	64	65	66	65	66	66	67	68	64	60	54	44	31	18			
8000	45	47	48	54	60	62	57	61	62	63	62	62	62	62	63	58	53	45	33	16	2			
10000	43	44	46	52	58	59	54	59	60	59	58	58	57	57	57	52	44	35	20					
12500	41	42	43	50	55	57	52	56	56	56	54	54	52	52	50	43	34	22	4					
16000	39	40	41	47	53	54	49	53	53	52	50	49	46	45	42	34	22	7						
20000	36	37	39	45	50	51	45	49	49	48	45	45	40	37	32	22	9							
25000	34	35	36	42	47	48	42	45	45	43	39	36	32	27	21	7								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE* AIR-TO-GROUND PROPAGATION			IDENTIFICATION: OMEGA 6.6
AIRCRAFT: F-5A,B	OPERATION: TAKEOFF POWER 101 % RPM AIRSPEED = 300 KNOTS	METEOROLOGY: TEMP = 59 F REL HUMID = 70 % DELTA N = 0.0 DB	A/C CODE: 509 OPS CODE: 103 PROFILE VER: A 17 FEB 76 PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	118.5	119.0	131.0	131.5	119.4	120.6	122.2
250	116.2	116.7	128.7	129.2	118.1	119.3	120.9
315	113.8	114.3	126.3	126.8	116.7	117.9	119.5
400	111.4	111.9	123.9	124.4	115.3	116.5	118.0
500	108.9	109.4	121.3	121.8	113.9	115.1	116.4
630	106.4	106.9	118.7	119.2	112.4	113.6	114.8
800	103.8	104.3	115.9	116.4	110.8	112.0	113.0
1000	101.2	101.7	113.0	113.5	109.1	110.3	111.1
1250	98.4	98.9	109.9	110.4	107.3	108.5	109.0
1600	95.5	96.0	106.6	107.1	105.4	106.6	106.7
2000	92.4	92.9	103.0	103.5	103.4	104.6	104.2
2500	89.2	89.7	99.5	100.0	101.1	102.3	101.6
3150	85.8	86.3	95.8	96.3	98.7	99.9	98.9
4000	82.2	82.6	91.8	92.2	96.1	97.1	95.7
5000	78.3	78.6	87.4	87.7	93.2	93.9	92.1
6300	74.1	74.3	82.8	83.0	90.1	90.5	88.2
8000	69.7	69.8	77.7	77.8	86.6	86.9	83.9
10000	65.0	65.0	72.8	72.8	83.0	83.0	79.7
12500	60.1	60.1	68.2	68.2	79.1	79.1	76.1
16000	55.2	55.2	63.4	63.4	75.1	75.1	72.3
20000	50.1	50.1	58.1	58.1	71.0	71.0	68.0
25000	44.9	44.9	52.5	52.5	66.9	66.9	63.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-5A,B TAKEOFF POWER
101 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-509-103-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

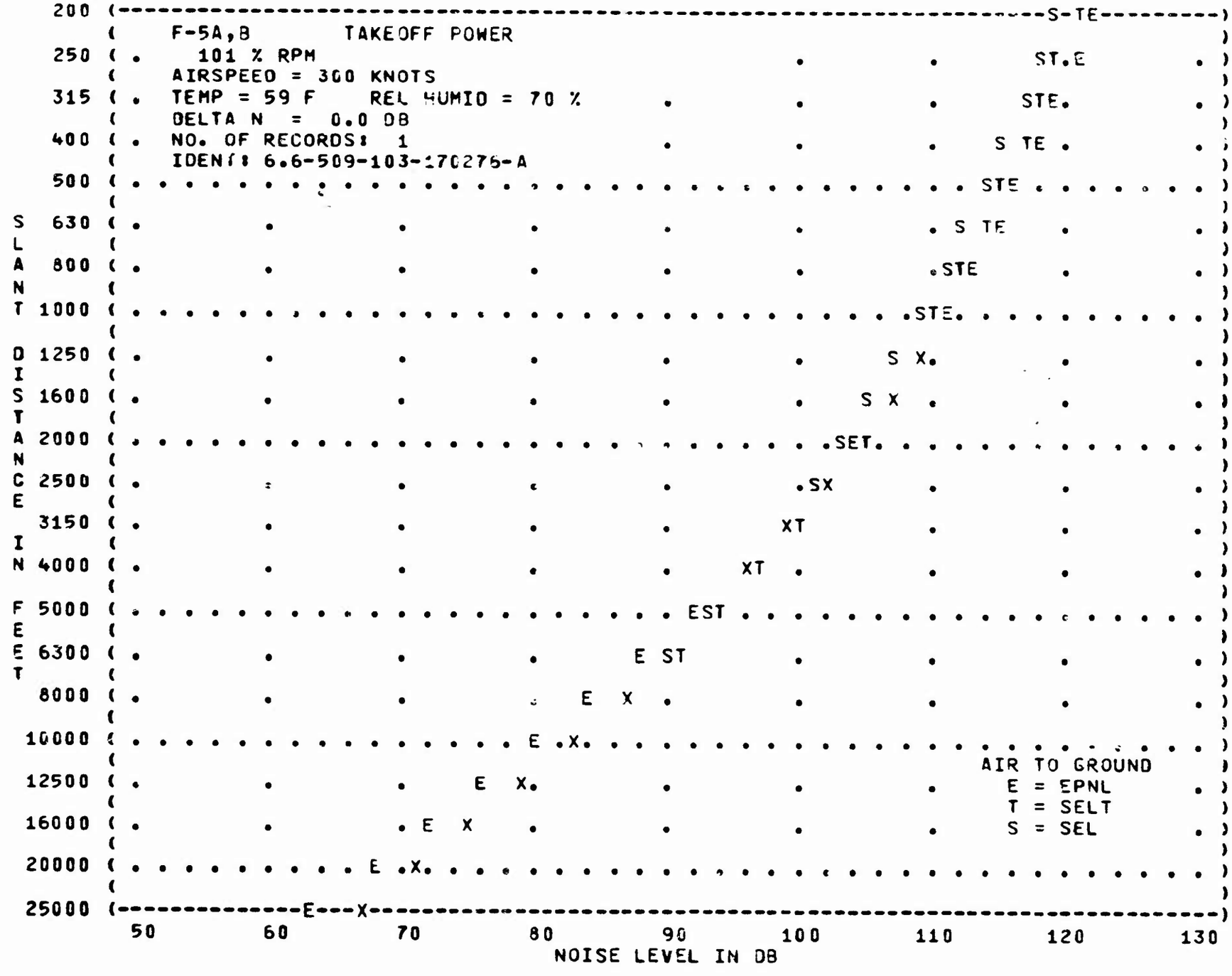

F-5A,B TAKEOFF POWER
101 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-509-103-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-5A,B

OPERATION: TAKEOFF POWER, 101 % RPM, AIRSPEED = 300 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 509
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SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																						
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	73	74	76	82	89	90	86	91	93	94	94	96	98	101	104	104	103	103	102	102	98	98	100	105
250	71	72	74	80	87	88	84	89	91	92	92	94	96	99	102	102	101	101	100	100	96	95	97	102
315	69	70	72	78	85	86	82	87	89	90	90	92	94	97	100	100	99	99	98	97	93	93	94	98
400	67	68	70	76	83	84	80	85	87	88	88	90	92	94	98	98	97	96	95	95	91	90	90	94
500	65	66	68	74	80	82	77	83	85	86	86	88	89	92	95	95	94	94	93	92	88	86	86	89
630	63	64	66	72	78	79	75	80	83	84	84	86	87	90	93	93	92	91	90	89	84	83	82	83
800	61	62	64	70	75	76	72	78	81	82	82	84	85	88	91	91	89	89	87	86	81	79	77	77
1000	59	60	62	67	72	73	69	75	78	80	80	82	83	86	88	88	87	86	84	82	77	74	71	69
1250	57	58	59	64	69	70	66	71	75	77	78	79	80	83	86	85	84	83	81	78	73	69	64	60
1600	55	55	55	60	66	67	62	68	72	75	75	77	78	81	83	83	81	80	77	74	68	62	56	49
2000	52	51	52	57	62	63	59	64	69	73	73	75	76	78	81	80	78	76	73	69	62	55	47	36
2500	48	47	47	52	58	59	54	60	65	69	70	72	73	75	78	76	74	72	68	63	55	47	35	20
3150	44	43	43	48	53	54	49	55	60	65	67	70	70	72	74	73	70	67	62	56	48	36	21	1
4000	40	38	37	42	47	48	44	49	55	60	63	66	67	69	71	69	66	62	56	47	38	24	4	
5000	34	33	33	37	42	43	39	44	49	55	59	62	64	66	67	65	61	56	48	38	27	9		
6300	29	29	28	33	38	38	34	39	43	50	55	58	60	62	63	59	55	49	39	26	13			
8000	27	27	26	30	35	36	31	36	40	47	52	54	56	57	58	53	48	40	28	11				
10000	25	24	24	28	33	34	29	34	38	43	48	50	51	52	52	47	39	30	15					
12500	23	22	21	26	30	31	26	31	34	40	44	46	46	47	45	38	29	17						
16000	21	20	19	23	28	28	23	28	31	36	40	41	40	40	37	29	17	2						
20000	18	17	17	21	25	25	20	24	27	32	35	35	34	32	27	17	3							
25000	16	15	14	18	22	22	16	20	23	27	29	28	26	22	16	2								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-5A,B

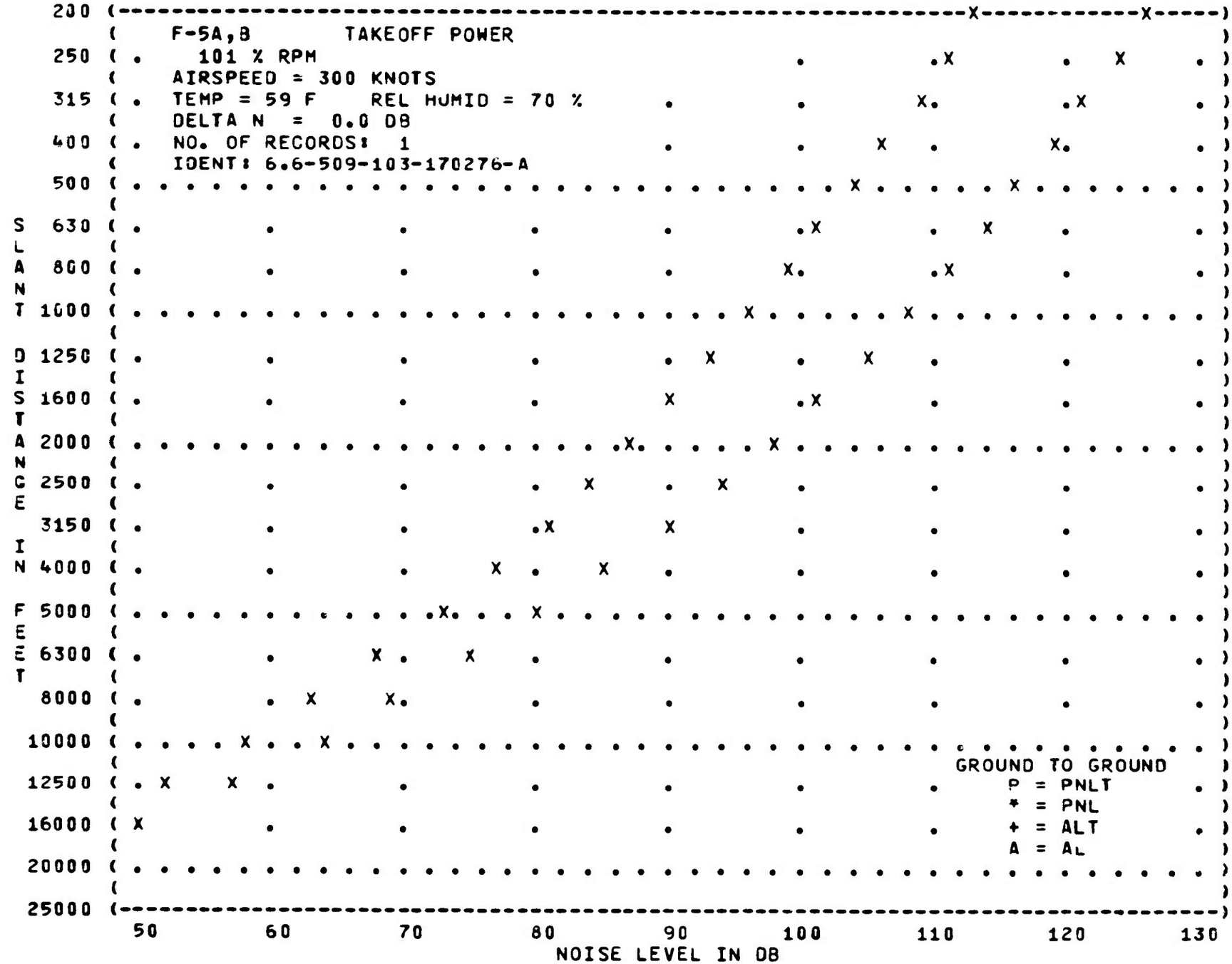
OPERATION:
TAKEOFF POWER
101 % RPM
AIRSPEED = 300 KNOTS

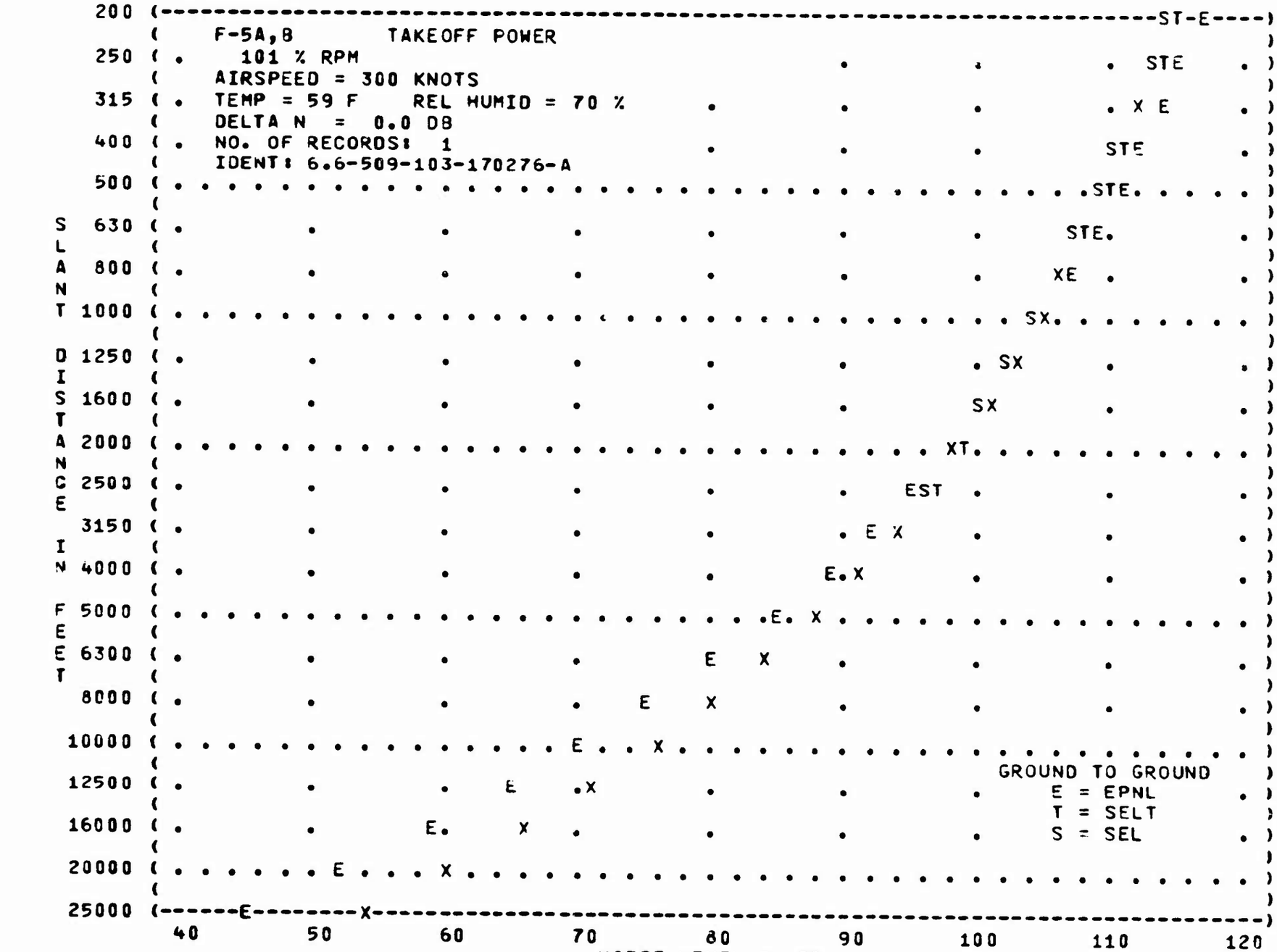
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

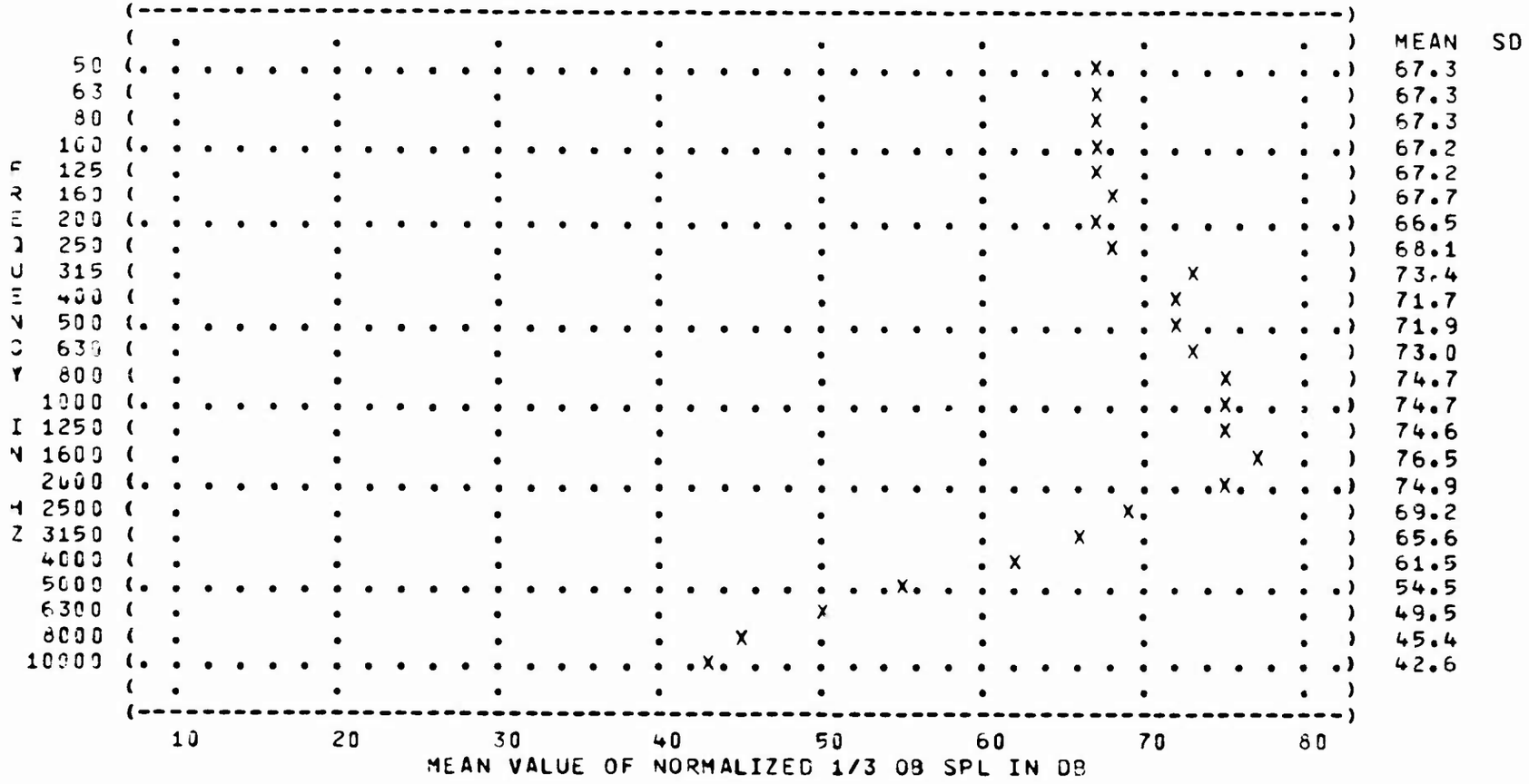
A/C CODE: 509
OPS CODE: 103
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	113.5	113.5	126.0	126.0	114.4	115.1	116.7
250	111.2	111.2	123.7	123.7	112.1	113.8	115.4
315	108.8	108.8	121.3	121.3	111.7	112.4	114.0
400	106.4	106.4	118.8	118.8	110.3	111.0	112.5
500	103.9	103.9	116.3	116.3	108.9	109.6	110.9
630	101.4	101.4	113.6	113.6	107.4	108.1	109.2
800	98.8	98.8	110.8	110.8	105.8	106.5	107.4
1000	96.1	96.1	107.8	107.8	104.1	104.8	105.5
1250	93.4	93.4	104.6	104.6	102.3	103.0	103.3
1600	90.5	90.5	101.2	101.2	100.4	101.1	100.8
2000	87.4	87.4	97.5	97.5	98.3	99.0	98.2
2500	84.1	84.1	93.7	93.7	96.1	96.8	95.3
3150	80.7	80.7	89.7	89.7	93.6	94.3	92.3
4000	76.9	76.9	85.2	85.2	90.8	91.4	88.7
5000	72.7	72.7	80.3	80.3	87.6	88.1	84.7
6300	68.1	68.1	74.9	74.9	84.1	84.4	80.1
8000	63.3	63.3	69.3	69.3	80.3	80.4	75.4
10000	58.0	58.0	63.5	63.5	76.0	76.0	70.5
12500	52.3	52.3	57.0	57.0	71.2	71.2	64.9
16000	46.0	46.0	50.1	50.1	65.9	65.9	59.1
20000	39.2	39.2	42.4	42.4	60.2	60.2	52.4
25000	32.0	32.0	33.8	33.8	53.9	53.9	44.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-5A,B TAKEOFF POWER
101 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-509-103-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-5A,B TAKEOFF POWER
101 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-509-103-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-5A,B CRUISE POWER 86 % RPM

AIRSPEED = 325 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-509-134-170276

PNLT = 95.5 PNDB
PNL = 94.9 PNDB
ALT = 84.3 DBA
AL = 83.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-5A,B

OPERATION:
CRUISE POWER
86 % RPM
AIRSPEED = 325 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 509
OPS CODE: 104
PROFILE VER: A
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SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	81	81	81	81	81	82	81	82	88	86	87	88	90	90	90	93	92	87	84	82	77	75	76	81
250	79	79	79	79	79	80	79	80	86	84	85	86	88	88	88	90	89	85	82	80	74	72	73	77
315	77	77	77	77	77	78	77	78	84	82	82	84	86	86	86	88	87	82	80	77	71	69	70	73
400	75	75	75	75	75	76	75	76	82	80	80	82	83	84	84	86	85	80	77	75	69	66	66	69
500	73	73	73	73	73	74	73	74	80	78	78	80	81	82	82	84	83	77	75	72	66	63	62	64
630	71	71	71	71	71	72	71	72	78	76	76	77	79	79	79	81	80	75	72	69	62	59	57	58
800	69	69	69	69	69	70	69	70	76	74	74	75	77	77	77	79	78	72	69	65	59	54	52	51
1000	67	67	67	67	67	68	67	68	73<	72	72	73	75	75	75	77	75	69	66	62	55	50	45	43
1250	65	65	65	65	65	66	64	66	71	70	70	71	72	72	72	74	72	66	62	57	50	44	38	33
1600	63	63	63	63	63	64	62	64	69	67	67	68	70	70	69	71	69	63	58	53	45	37	29	21
2000	61	61	61	61	61	61	60	62	67	65	65	66	67	67	67	68	66	59	54	47	38	29	19	6
2500	59	59	59	59	59	59	58	59	65	63	63	63	65	64	63	64	62	54	48	41	31	20	6	
3150	57	57	57	57	57	57	56	57	62	60	60	61	62	61	60	61	58	49	42	33	23	9		
4000	55	55	55	55	55	55	54	55	60	58	57	58	59	58	56	57	53	44	35	24	13			
5000	53	53	53	53	52	53	51	52	57	55	55	55	55	54	52	52	47	37	27	13	0			
6300	51	51	51	50	50	50	49	50	55	52	52	52	52	50	48	46	41	29	17	0				
8000	49	49	48	48	48	48	46	47	52	49	48	48	48	45	42	40	33	20	5					
10000	47	46	46	46	45	45	44	44	49	46	45	44	43	40	36	32	24	9						
12500	44	44	44	43	43	43	41	41	46	42	40	39	38	34	29	24	13							
16000	42	42	41	41	40	40	38	38	42	38	36	34	31	26	20	13	0							
20000	40	39	39	38	37	37	34	34	38	33	30	28	24	18	9									
25000	37	37	36	35	34	34	31	30	33	28	24	20	15	7										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-5A,B

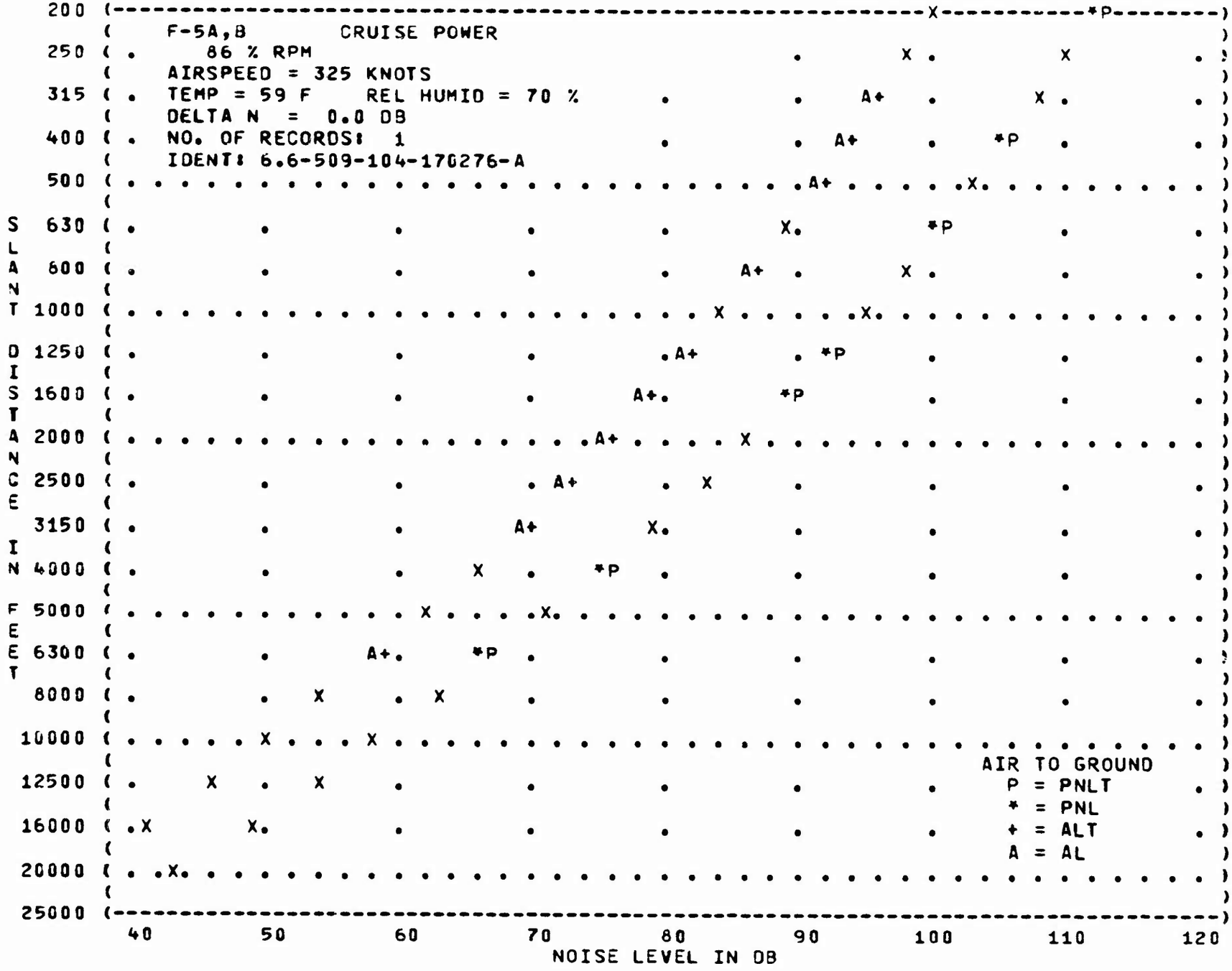
OPERATION:
CRUISE POWER
86 % RPM
AIRSPEED = 325 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 509
OPS CODE: 104
PROFILE VER: A
17 FEB 76
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	99.8	100.4	112.1	112.7	97.6	98.6	100.8
250	97.7	98.2	109.9	110.5	96.5	97.5	99.6
315	95.5	96.0	107.6	108.2	95.3	96.3	98.3
400	93.2	93.8	105.2	105.8	94.0	95.0	96.9
500	91.0	91.5	102.8	103.4	92.8	93.8	95.5
630	88.6	89.2	100.3	100.9	91.4	92.4	94.0
800	86.2	86.8	97.7	98.2	90.0	91.0	92.4
1000	83.7	84.3	94.9	95.5	88.5	89.5	90.6
1250	81.1	81.7	92.0	92.6	86.9	87.9	88.7
1600	78.3	78.9	89.0	89.5	85.2	86.2	86.7
2000	75.5	76.1	85.8	86.4	83.3	84.3	84.5
2500	72.4	73.0	82.5	83.1	81.2	82.2	82.2
3150	69.2	69.8	78.9	79.5	79.0	80.0	79.6
4000	65.8	66.2	75.0	75.5	76.6	77.4	76.5
5000	62.1	62.5	70.8	71.2	73.9	74.5	73.1
6300	58.3	58.5	66.5	66.7	71.1	71.5	69.6
8000	54.3	54.4	62.5	62.7	68.1	68.3	66.4
10000	50.0	50.0	58.3	58.3	64.9	64.9	63.0
12500	45.7	45.7	53.8	53.8	61.5	61.5	59.5
16000	41.1	41.1	48.7	48.7	57.9	57.9	55.4
20000	36.4	36.4	42.9	42.9	54.2	54.2	50.6
25000	31.5	31.5	36.4	36.4	50.3	50.3	45.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-5A,B CRUISE POWER
86 % RPM
AIRSPEED = 325 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-509-104-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

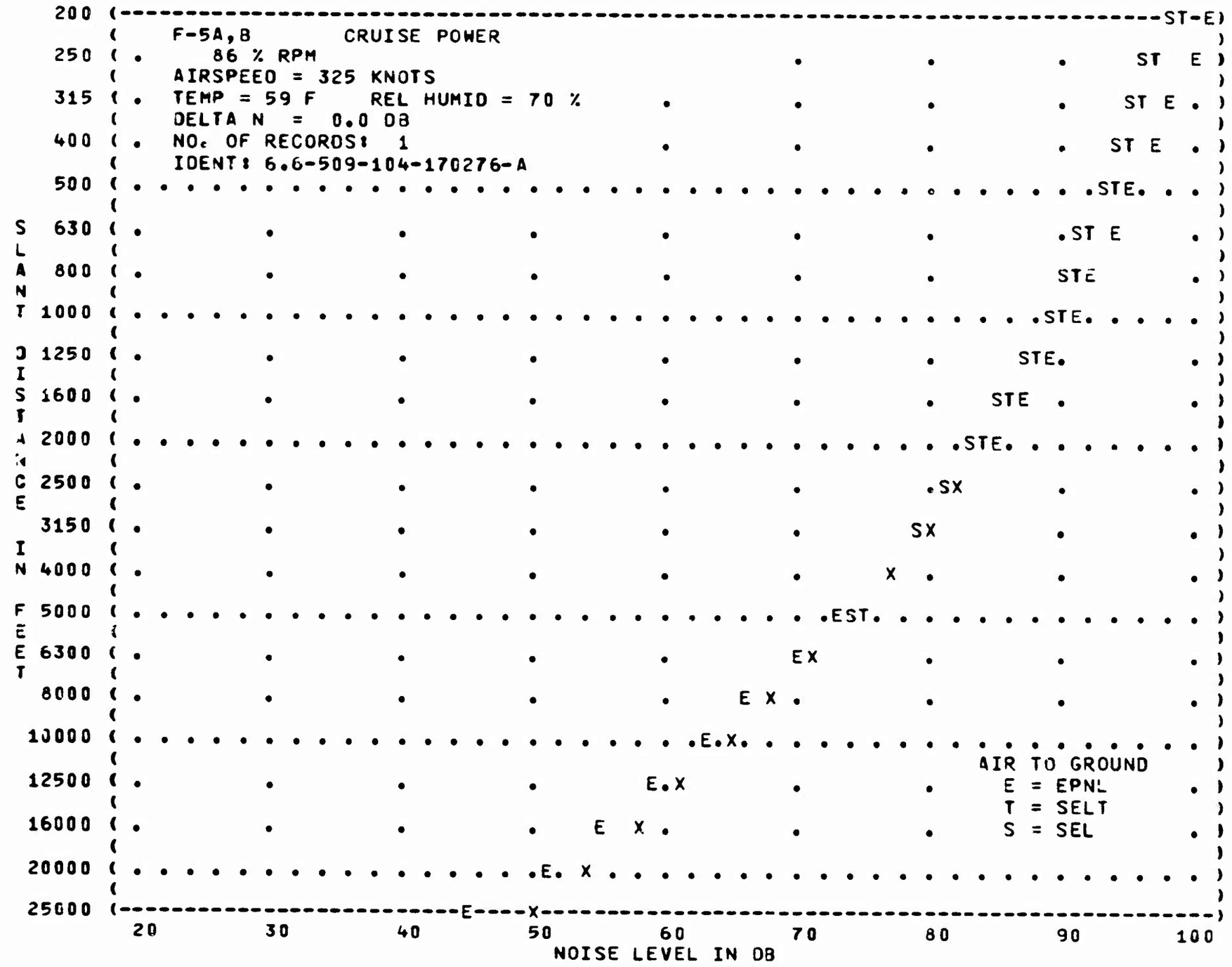

F-5A,B CRUISE POWER
86 % RPM
AIRSPEED = 325 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-509-104-170276-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-5A,B

OPERATION:
CRUISE POWER
86 % RPM
AIRSPEED = 325 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 509
OPS CODE: 104
PROFILE VER: A
17 FEB 76
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																						
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	76	76	76	76	76	77	76	77	83	81	82	83	85	85	85	88	87	82	79	77	72	70	71	76
250	74	74	74	74	74	75	74	75	81	79	80	81	83	83	83	85	84	80	77	75	69	67	68	72
315	72	72	72	72	72	73	72	73	79	77	77	79	81	81	81	83	82	77	75	72	66	64	65	68
400	70	70	70	70	70	71	70	71	77	75	75	77	78	79	79	81	80	75	72	70	64	61	61	64
500	68	68	68	68	68	68	67	69	75	73	73	75	76	77	77	79	78	72	70	67	61	58	57	59
630	66	66	66	66	66	66	64	67	73	71	71	72	74	74	74	76	75	70	67	64	57	54	52	53
800	64	64	64	64	63	63	62	64	71	69	69	70	72	72	72	74	73	67	64	60	54	49	47	46
1000	62	62	62	61	60	60	59	61	68<	67	67	68	70	70	70	72	70	64	61	57	50	45	40	38
1250	60	60	59	58	57	57	56	58	65	65	65	66	67	67	67	69	67	61	57	52	45	39	33	28
1600	58	57	56	54	53	53	52	54	62	62	62	63	65	65	64	66	64	58	53	48	40	32	24	16
2000	55	54	52	51	50	49	48	50	58	60	60	61	62	62	62	63	61	54	49	42	33	24	14	1
2500	52	50	48	46	45	45	44	46	54	56	58	58	60	59	58	59	57	49	43	36	26	15	1	
3150	48	45	43	41	40	40	39	41	50	52	54	56	57	56	55	56	53	44	37	28	18	4		
4000	43	40	38	36	35	35	33	35	45	47	50	52	54	53	51	52	48	39	30	19	8			
5000	38	35	33	31	30	30	28	30	39	42	46	48	50	49	47	47	42	32	22	8				
6300	33	31	29	26	25	25	23	25	33	36	42	44	46	45	43	41	36	24	12					
8000	31	29	26	24	23	22	21	22	30	33	38	40	42	40	37	35	28	15	0					
10000	29	26	24	22	20	20	18	19	27	30	35	36	37	35	31	27	19	4						
12500	26	24	22	19	18	17	15	16	24	26	30	31	32	29	24	19	8							
16000	24	22	19	17	15	14	12	13	20	22	26	26	25	21	15	8								
20000	22	19	17	14	12	11	9	9	16	17	20	20	18	13	4									
25000	19	17	14	11	9	8	5	5	11	12	14	12	9	2										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-5A,B

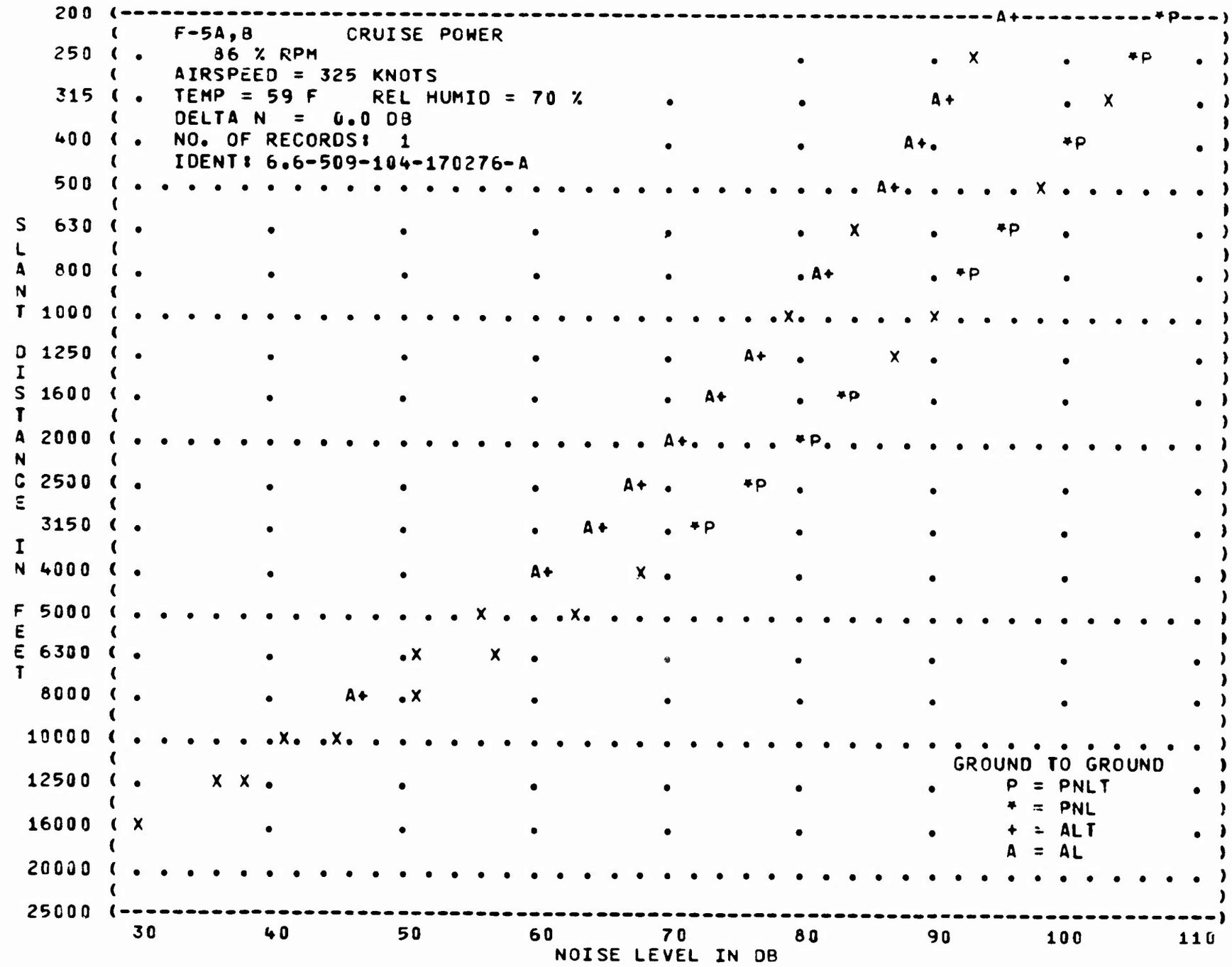
OPERATION:
CRUISE POWER
86 % RPM
AIRSPEED = 325 KNOTS

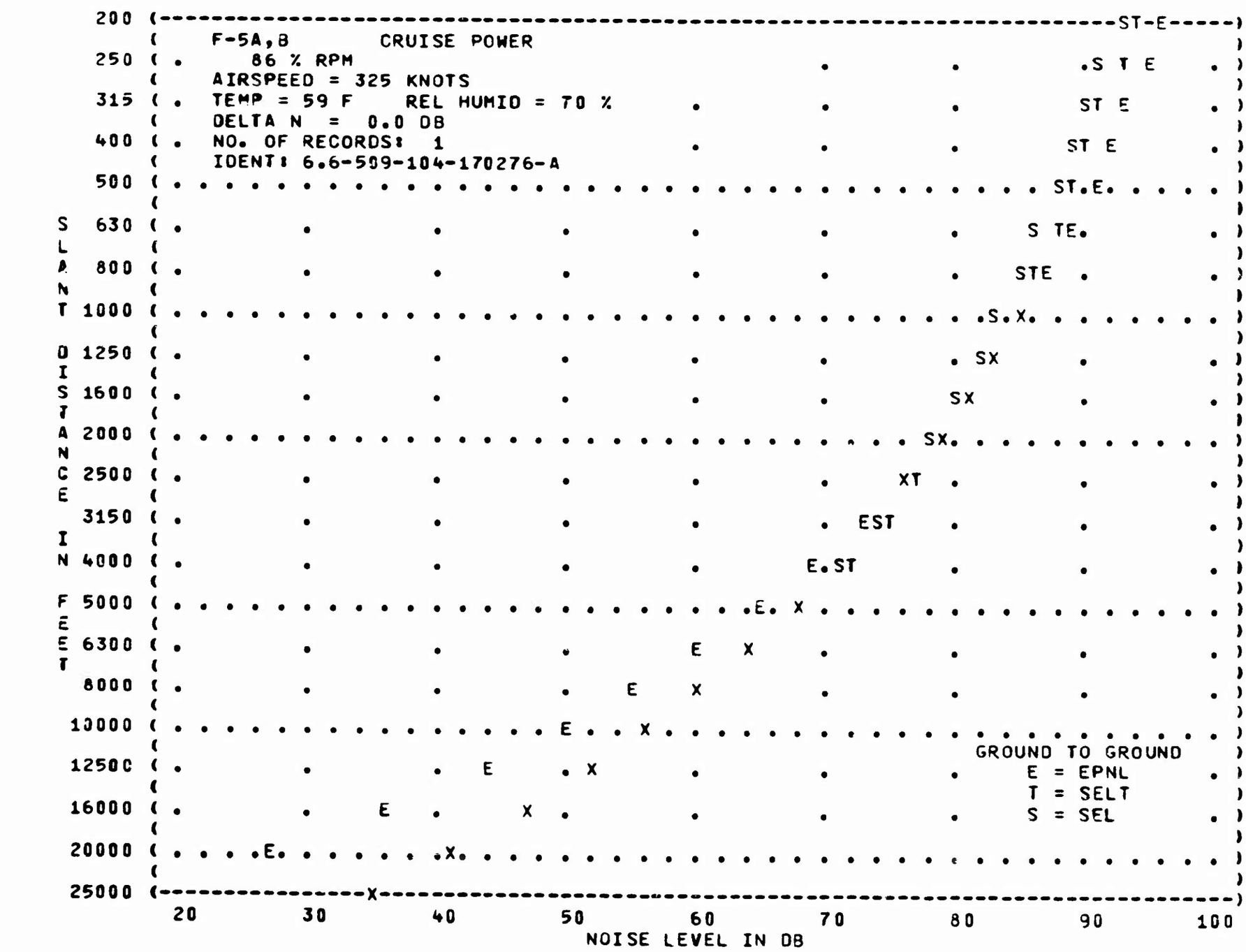
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

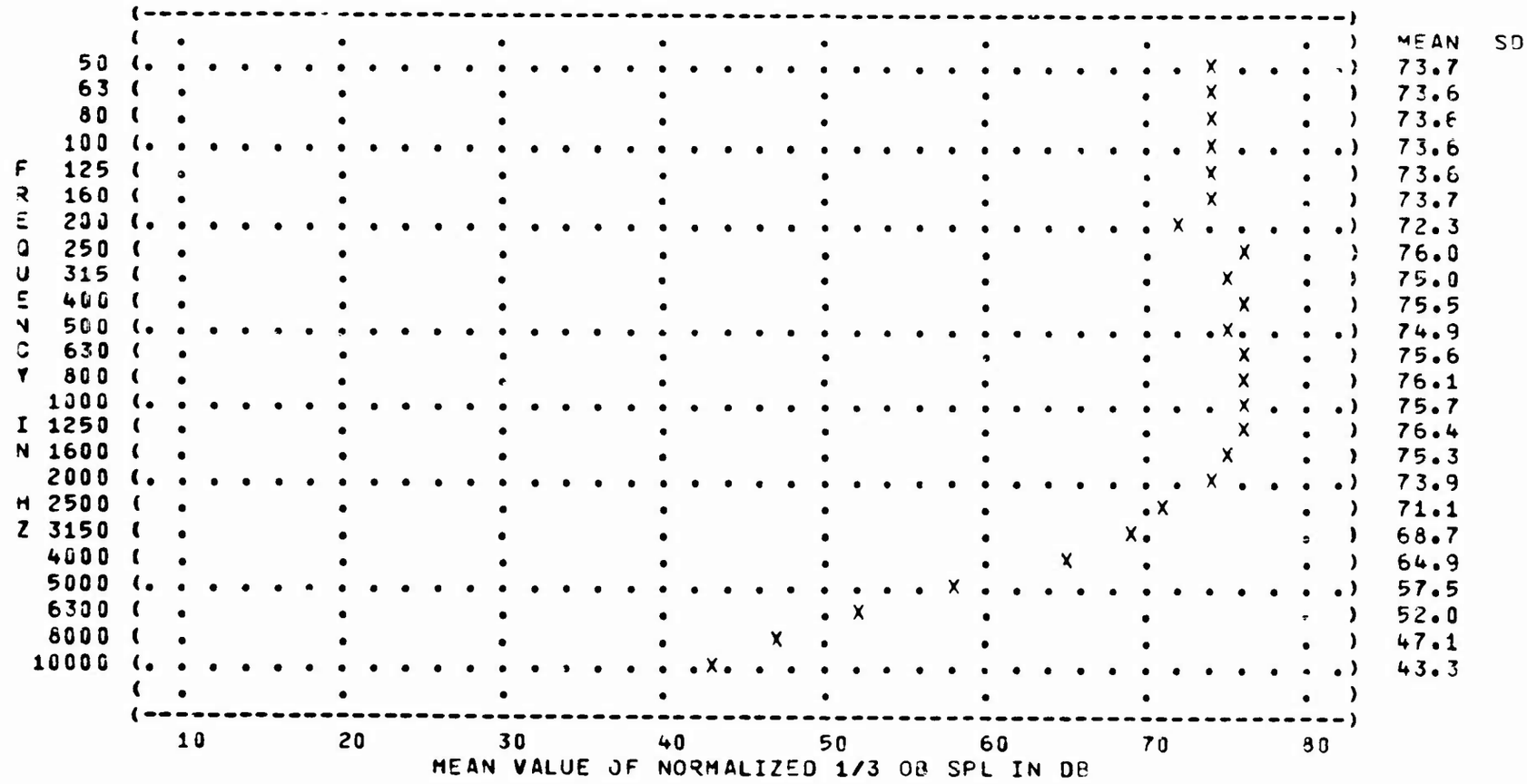
A/C CODE: 509
OPS CODE: 104
PROFILE VER: A
17 FEB 76
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	94.8	95.6	107.1	107.8	92.6	93.8	95.9
250	92.7	93.4	104.8	105.6	91.5	92.6	94.7
315	90.5	91.2	102.5	103.3	90.3	91.4	93.4
400	88.2	89.0	100.1	100.9	89.0	90.2	92.0
500	86.0	86.7	97.7	98.4	87.8	88.9	90.6
630	83.6	84.4	95.1	95.9	86.4	87.6	89.0
800	81.2	81.9	92.5	93.2	85.0	86.2	87.3
1000	78.7	79.4	89.6	90.4	83.5	84.6	85.5
1250	76.0	76.8	86.6	87.4	81.8	83.0	83.5
1600	73.3	74.0	83.4	84.1	80.1	81.2	81.3
2000	70.4	71.1	80.0	80.8	78.2	79.3	78.9
2500	67.2	67.9	76.3	77.0	76.0	77.2	76.2
3150	63.8	64.5	72.2	72.9	73.6	74.8	73.1
4000	60.0	60.6	67.6	68.2	70.8	71.8	69.2
5000	55.8	56.2	62.5	63.0	67.6	68.3	64.9
6300	51.1	51.4	56.8	57.1	63.9	64.4	60.0
8000	46.5	46.6	51.2	51.3	60.3	60.5	55.1
10000	41.4	41.4	45.0	45.0	56.2	56.2	49.7
12500	35.9	35.9	38.0	38.0	51.7	51.7	43.7
16000	29.9	29.9	29.8	29.8	46.7	46.7	36.5
20000	23.3	23.3	18.9	18.9	41.1	41.1	26.6
25000	16.3	16.3	8.0	8.0	35.1	35.1	16.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-5A,B CRUISE POWER
86 % RPM
AIRSPEED = 325 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-509-104-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-5A,B CRUISE POWER
86 % RPM
AIRSPEED = 325 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-509-104-170276-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB



F-5A,B APPROACH POWER 82 % RPM

AIRSPEED = 170 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-509-105-170276

PNLT = 96.3 PNDB
PNL = 96.3 PNDB
ALT = 84.7 DBA
AL = 84.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-5A,B

OPERATION:
APPROACH POWER
82 % RPM
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 509
OPS CODE: 105
PROFILE VER: A
17 FEB 76
PAGE H4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	88	88	88	88	88	88	87	90	89	90	90	90	91	91	92	91	90	89	87	85	79	77	77	80
250	86	86	86	86	86	86	85	88	87	88	87	88	89	89	90	89	88	86	85	83	77	74	74	77
315	84	84	84	84	84	84	83	86	85	86	85	86	87	87	88	87	86	84	83	80	74	71	71	73
400	82	82	82	82	82	82	80	84	83	84	83	84	85	85	86	85	84	82	80	78	71	68	67	69
500	80	80	80	80	80	80	78	82	81	82	81	82	83	82	83	83	82	79	78	75	68	65	63	64
630	78	78	78	78	78	78	76	80	79	80	79	80	81	80	81	80	79	77	75	72	65	61	58	58
800	76	76	76	76	76	76	74	78	77	78	77	78	78	78	79	78	77	74	72	69	61	57	53	51
1000	74	74	74	74	74	74	72	76	75	76	75	76	76	76	76	75	74	71	69	65	58	52	47	43
1250	72	72	72	72	72	72	70	74	73	73	73	73	74	73	74	73	71	68	65	61	53	46	40	34
1600	70	70	70	70	69	70	68	72	71	71	70	71	71	71	71	70	68	65	61	56	48	40	32	22
2000	68	68	67	67	67	67	66	70	69	69	68	69	69	68	68	67	65	61	57	51	42	33	22	9
2500	66	65	65	65	65	65	64	67	66	67	66	66	66	65	65	63	61	57	52	45	35	24	9	
3150	64	63	63	63	63	63	62	65	64	64	63	63	63	62	62	60	57	52	46	37	27	13		
4000	61	61	61	61	61	61	59	63	62	62	61	61	60	59	59	56	52	46	39	29	17			
5000	59	59	59	59	59	59	57	60	59	59	58	58	57	55	55	51	47	40	32	18	5			
6300	57	57	57	57	57	56	55	58	56	56	55	54	54	51	50	46	41	32	22	6				
8000	55	55	55	55	54	54	52	55	54	53	52	51	49	47	45	40	33	23	11					
10000	53	53	53	52	52	52	50	53	51	50	48	47	45	42	39	32	25	13						
12500	51	50	50	50	49	49	47	50	47	46	44	42	40	36	32	24	14							
16000	49	48	48	47	47	46	44	46	44	42	39	37	34	29	23	14	2							
20000	46	46	45	45	44	43	40	43	40	38	34	31	27	20	13	1								
25000	44	43	43	42	41	40	37	39	35	33	28	24	18	10	1									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-5A,B

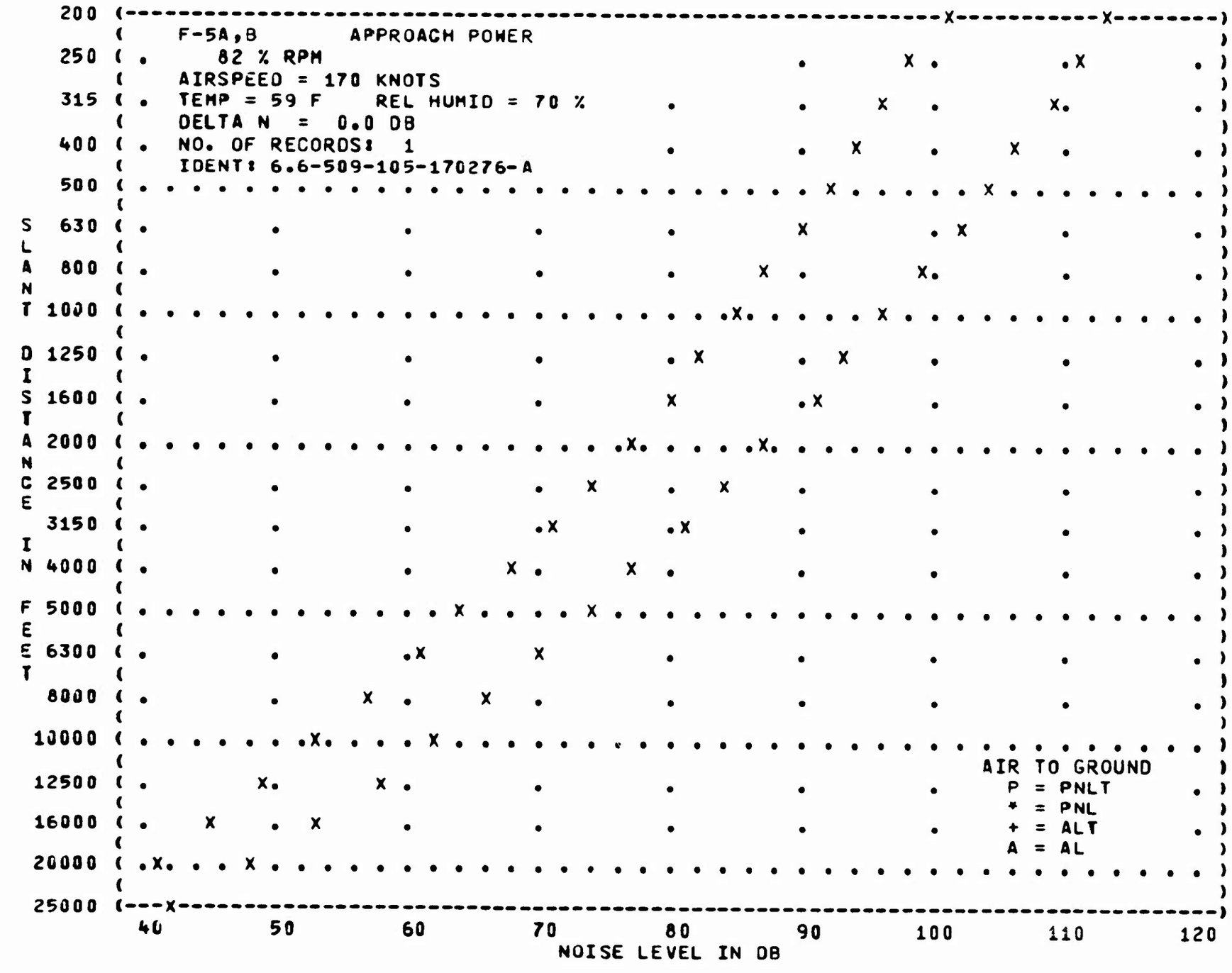
OPERATION:
APPROACH POWER
82 % RPM
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 509
OPS CODE: 105
PROFILE VER: A
17 FEB 76
PAGE I4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	100.6	100.6	113.3	113.3	100.1	100.8	103.6
250	98.5	98.5	111.1	111.1	99.0	99.7	102.4
315	96.3	96.3	108.8	108.8	97.8	98.5	101.1
400	94.1	94.1	106.5	106.5	96.6	97.3	99.8
500	91.8	91.8	104.1	104.1	95.3	96.0	98.4
630	89.5	89.5	101.6	101.6	94.0	94.7	96.9
800	87.1	87.1	99.0	99.0	92.7	93.4	95.3
1000	84.7	84.7	96.3	96.3	91.2	91.9	93.6
1250	82.1	82.1	93.5	93.5	89.7	90.4	91.8
1600	79.5	79.5	90.5	90.5	88.0	88.7	89.8
2000	76.8	76.8	87.4	87.4	86.3	87.0	87.7
2500	73.9	73.9	84.2	84.2	84.4	85.1	85.4
3150	70.9	70.9	80.7	80.7	82.4	83.1	83.0
4000	67.7	67.7	77.1	77.1	80.2	80.8	80.2
5000	64.3	64.3	73.7	73.7	77.9	78.3	77.7
6300	60.9	60.9	70.1	70.1	75.4	75.6	75.0
8000	57.2	57.2	66.4	66.4	72.7	72.8	72.1
10000	53.4	53.4	62.4	62.4	69.9	69.9	69.0
12500	49.4	49.4	58.1	58.1	66.9	66.9	65.7
16000	45.3	45.3	53.4	53.4	63.8	63.8	61.9
20000	41.0	41.0	48.3	48.3	60.5	60.5	57.9
25000	36.5	36.5	42.5	42.5	57.0	57.0	53.0

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-5A,B APPROACH POWER
82 % RPM
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-509-105-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

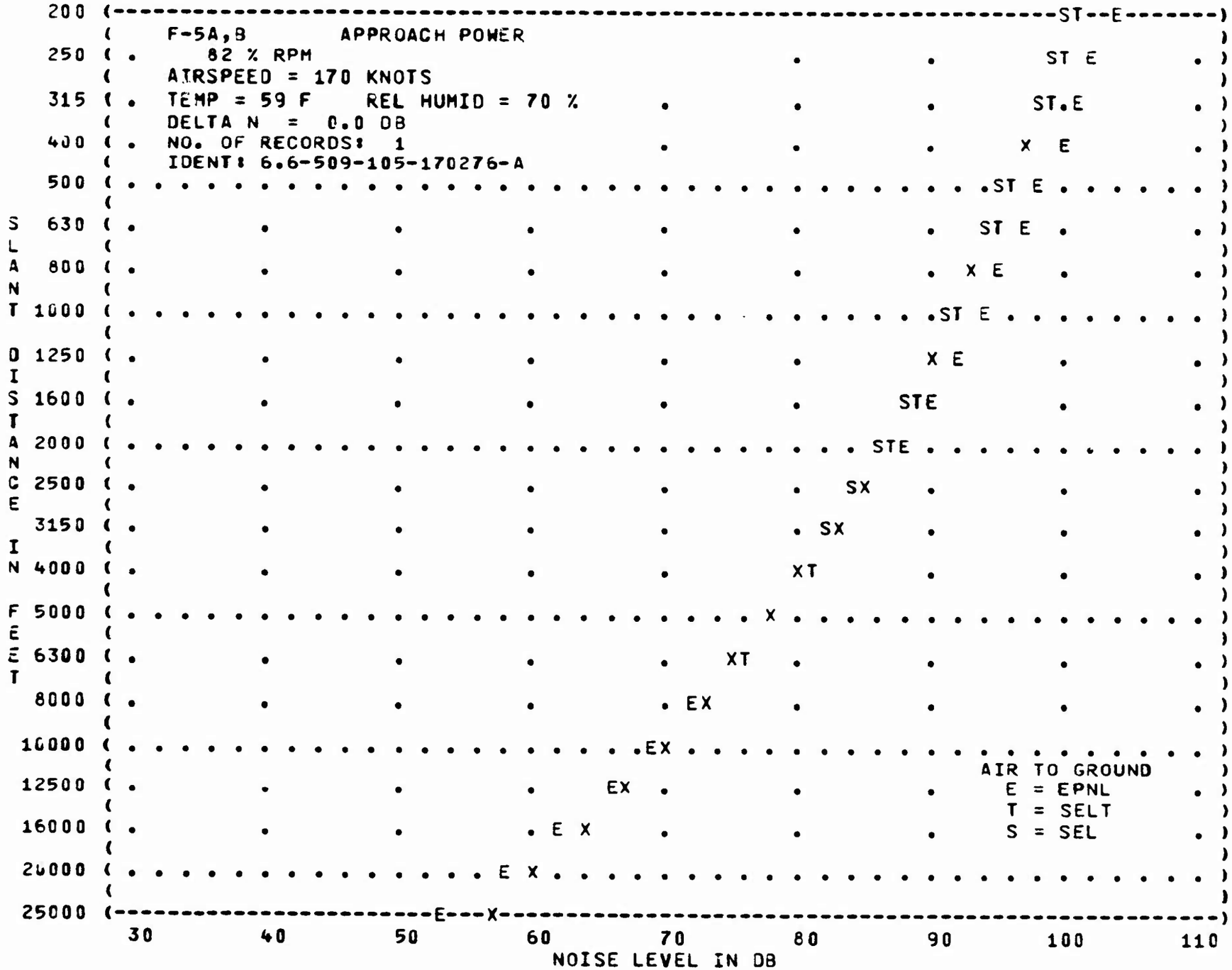

F-5A,B APPROACH POWER
82 % RPM
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-509-105-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

AIRCRAFT: F-5A,B

OPERATION: APPROACH POWER, 82 % RPM, AIRSPEED = 170 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

IDENTIFICATION: OMEGA 6.6, A/C CODE: 509, OPS CODE: 105, PROFILE VER: A, 17 FEB 76, PAGE L4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	83	83	83	83	83	83	82	85	84	85	85	85	86	86	87	86	85	84	82	80	74	72	72	75
250	81	81	81	81	81	81	80	83	82	83	82	83	84	84	85	84	83	81	80	78	72	69	69	72
315	79	79	79	79	79	79	78	81	80	81	80	81	82	82	83	82	81	79	78	75	69	66	66	68
400	77	77	77	77	77	77	75	79	78	79	78	79	80	80	81	80	79	77	75	73	66	63	62	64
500	75	75	75	75	75	74	73	77	76	77	76	77	78	77	78	78	77	74	73	70	63	60	58	59
630	73	73	73	73	72	72	70	74	74	75	74	75	76	75	76	75	74	72	70	67	60	56	53	53
800	71	71	71	70	69	69	67	72	72	73	72	73	73	73	74	73	72	69	67	64	56	52	48	46
1000	69	69	69	67	66	66	65	69	70	71	70	71	71	71	71	70	69	66	64	60	53	47	42	38
1250	67	67	66	64	63	63	61	66	67	68	68	68	69	68	69	68	66	63	60	56	48	41	35	29
1600	65	63	62	61	60	59	58	62	64	66	65	66	66	66	66	65	63	60	56	51	43	35	27	17
2000	62	60	59	57	56	55	54	58	60	64	63	64	64	63	63	62	60	56	52	46	37	28	17	4
2500	58	56	54	53	52	51	50	54	56	60	61	61	61	60	60	58	56	52	47	40	30	19	4	
3150	54	51	50	48	47	46	45	49	52	56	57	58	58	57	57	55	52	47	41	32	22	8		
4000	50	46	44	42	41	41	39	43	46	51	53	55	55	54	54	51	47	41	34	24	12			
5000	44	42	40	37	36	36	34	38	40	46	49	51	52	50	50	46	42	35	27	13	0			
6300	39	37	35	33	32	31	29	33	34	40	45	46	48	46	45	41	36	27	17	1				
8000	37	35	33	31	29	29	27	30	32	37	42	43	43	42	40	35	28	18	6					
10000	35	33	31	28	27	26	24	28	29	34	38	39	39	37	34	27	20	8						
12500	33	30	28	26	24	23	21	25	25	30	34	34	34	31	27	19	9							
16000	31	28	26	23	22	21	18	21	22	26	29	29	28	24	18	9								
20000	28	26	23	21	19	18	15	18	18	22	24	23	21	15	8									
25000	26	23	21	18	16	14	11	14	13	17	18	16	12	5										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-5A,B

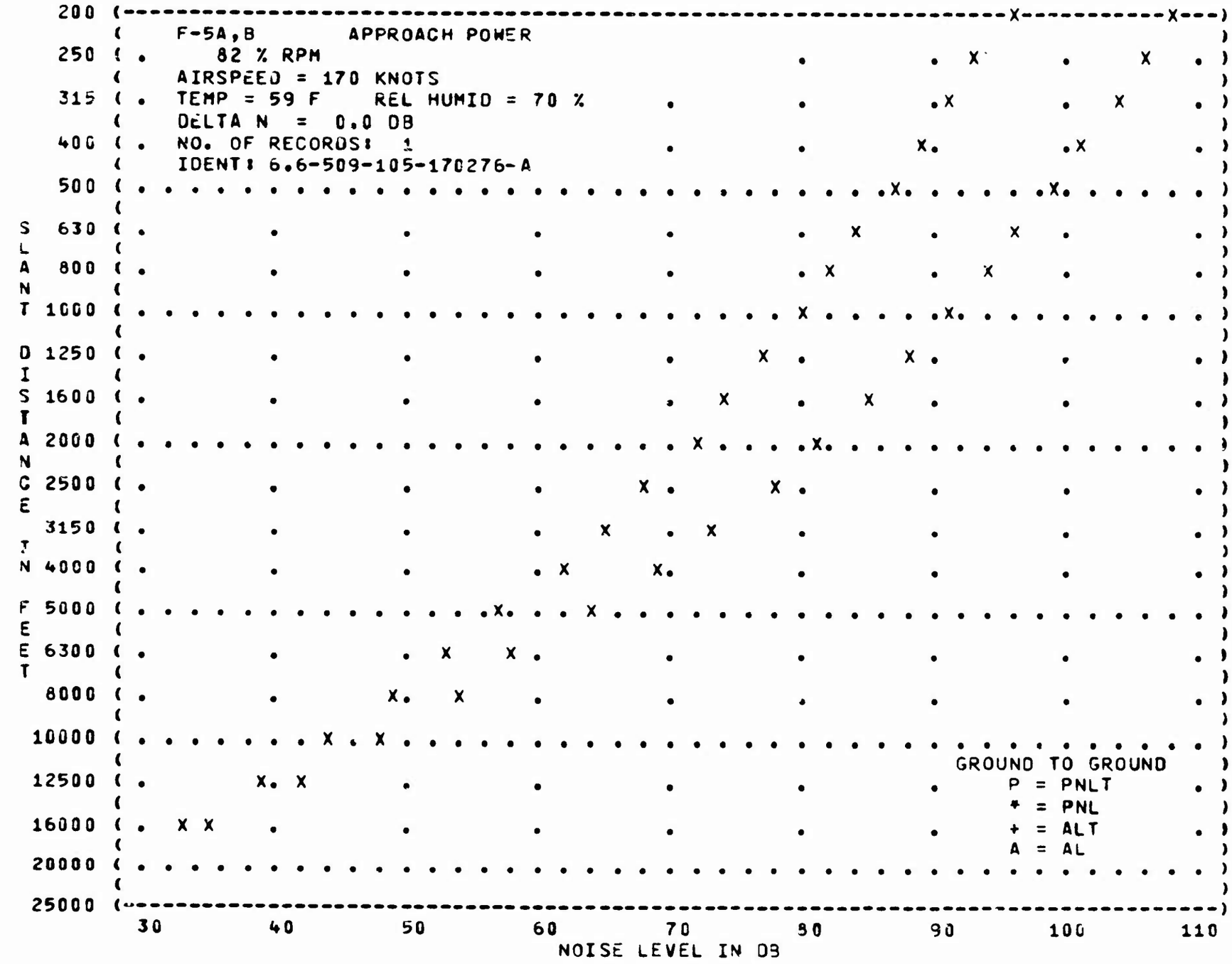
OPERATION:
APPROACH POWER
82 % RPM
AIRSPEED = 170 KNOTS

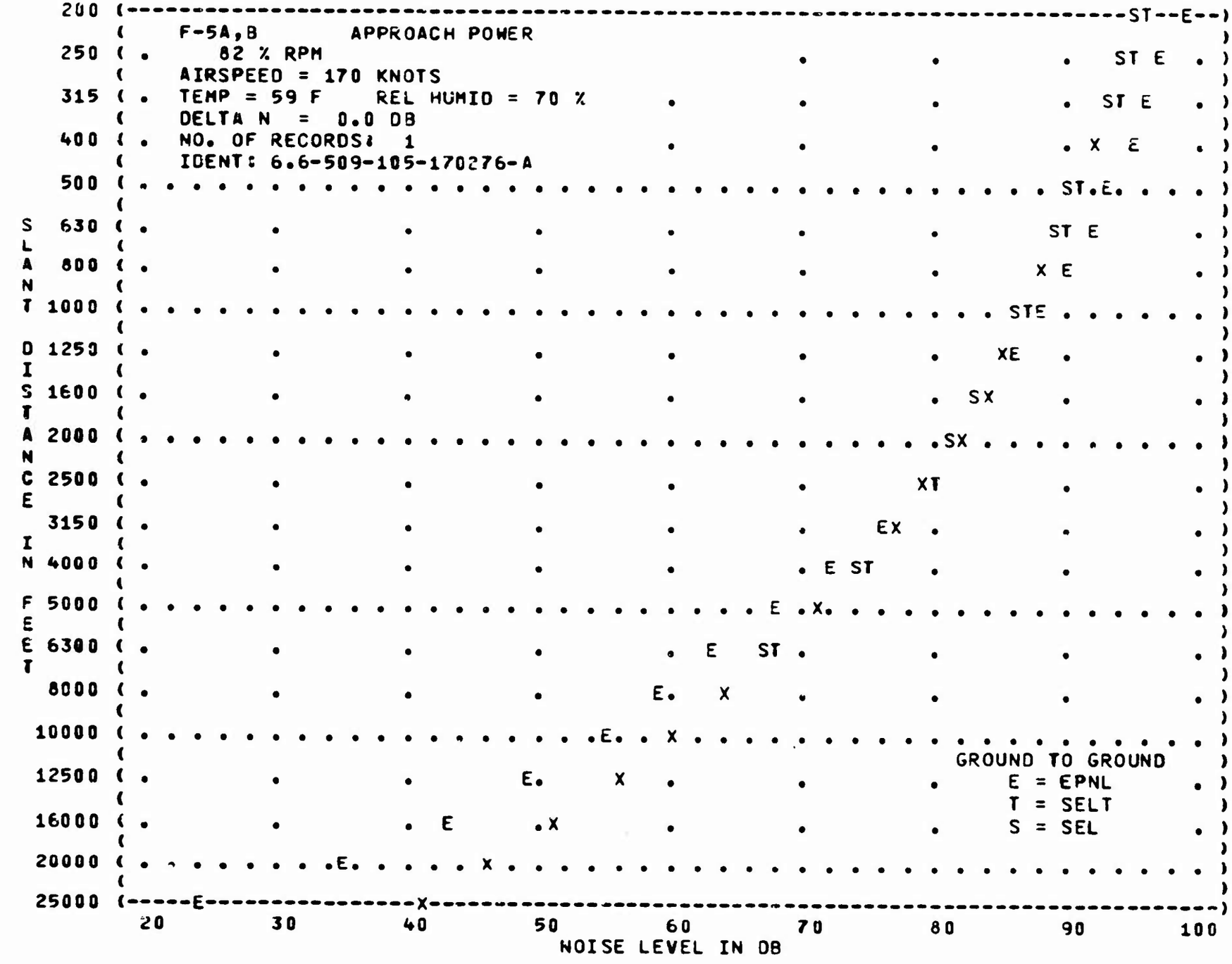
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 509
OPS CODE: 105
PROFILE VER: A
17 FEB 76
PAGE M4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	95.6	95.6	108.3	108.3	95.1	95.8	98.5
250	93.5	93.5	106.0	106.0	94.0	94.7	97.3
315	91.3	91.3	103.8	103.8	92.8	93.5	96.0
400	89.1	89.1	101.4	101.4	91.6	92.3	94.7
500	86.8	86.8	99.0	99.0	90.3	91.0	93.2
630	84.5	84.5	96.4	96.4	89.0	89.7	91.7
800	82.1	82.1	93.8	93.8	87.6	88.3	90.0
1000	79.6	79.6	90.9	90.9	86.1	86.8	88.2
1250	77.0	77.0	87.9	87.9	84.6	85.3	86.2
1600	74.3	74.3	84.7	84.7	82.9	83.6	84.0
2000	71.5	71.5	81.3	81.3	81.0	81.7	81.5
2500	68.5	68.5	77.6	77.6	79.0	79.7	78.8
3150	65.1	65.1	73.4	73.4	76.7	77.4	75.7
4000	61.5	61.5	68.9	68.9	74.0	74.6	72.0
5000	57.4	57.4	63.8	63.8	70.9	71.3	67.8
6300	52.9	52.9	58.4	58.4	67.4	67.7	63.3
8000	48.5	48.5	53.7	53.7	64.0	64.2	59.4
10000	43.8	43.8	48.1	48.1	60.3	60.3	54.7
12500	38.6	38.6	41.7	41.7	56.1	56.1	49.3
16000	32.9	32.9	34.8	34.8	51.4	51.4	43.3
20000	26.8	26.8	25.4	25.4	46.3	46.3	35.0
25000	20.2	20.2	13.7	13.7	40.7	40.7	24.3

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-5A,B APPROACH POWER
82 % RPM
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-509-105-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-5A,B APPROACH POWER
82 % RPM
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-509-105-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB

USAF F-5A,B AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

F-5A,B AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-509-039
AIRCRAFT CODE: 509
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
50% RPM	266-271
80% RPM	272-277
MIL 100% RPM	278-283
AFTERBURNER 100% RPM	284-289

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

13 APR 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF F-5A,B AIRCRAFT

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 01

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
IDLE, 50% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.9 DB

AIRCRAFT CODE 509
OPERATION CODE 02013
PROFILE VERSION A
13 APR 76
PAGE C1

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	63	63	63	64	63	64	62	63	63	62	63	64	61	64	65	66	66	64	62
63	62	62	62	63	62	62	61	62	61	61	60	62	62	61	63	64	63	62	60
80	60	61	61	61	58	58	60	58	58	57	59	59	61	60	62	63	63	61	60
100	63	63	62	61	61	62	61	59	61	60	61	60	61	63	65	65	65	62	60
125	66	67	68	67	65	66	65	67	67	65	65	65	65	67	66	66	66	63	58
160	67	67	69	68	67	67	67	69	68	69	70	71	69	68	67	68	66	65	58
200	63	63	62	62	62	63	61	64	63	62	64	64	65	64	63	61	59	58	56<
250	60	62	62	62	62	62	61	59	61	59	60	60	62	64	60	56	54	56	53
315	64	65	64	62	62	61	62	63	62	59	62	62	66	65	62	59	57	60	53
400	63	64	63	61	61	58	59	58	59	55	59	61	64	63	60	58	57	59	50
500	61	62	61	57	56	55	54	50	53	50	54	58	61	60	57	55	55	56	49
630	65	65	64	58	58	57	52	49	54	49	52	56	60	59	56	54	54	54	51
800	66	66	63	61	58	58	53	51	55	50	51	54	58	57	57	55	54	53	45
1000	67	65	64	63	61	60	54	52	54	49	51	53	55	55	55	52	52	51	44
1250	68	65	66	63	62	59	56	54	54	47	47	49	52	51	52	51	50	48	40
1600	71	68	70	67	66	64	58	54	55	50	50	50	51	51	53	50	50	48	40
2000	72	70	70	68	68	65	60	57	57	50	49	49	49	50	51	50	51	48	41
2500	71	70	69	68	67	63	58	56	56	49	52	51	49	50	52	50	52	49	42
3150	72	71	70	70	67	63	59	56	58	49	52	52	51	51	52	49	51	49	42
4000	71	70	72	71	72	68	62	65	63	57	55	56	50	51	53	53	54	50	43
5000	66	65	66	63	64	59	54	56	55	49	49	50	45	45	47	46	47	44	38
6300	68	67	67	65	64	58	51	49	51	40	44	44	43	44	44	40	43	42	33
8000	66	66	66	64	63	57	50	49	49	39	44	43	43	43	41	39	41	40	27<
10000	60	59	59	56	55	49	44	41	43	33<	38	41	40	38	38	33<	35<	34<	21<
OVERALL	81	80	80	79	78	76	74	75	74	73	74	75	75	75	74	74	74	72	68

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
IDLE, 50% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.9 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 01
AIRCRAFT CODE 509
OPERATION CODE 02013
PROFILE VERSION A
13 APR 76
PAGE D1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	96.9	95.9	96.3	95.0	94.8	91.5	87.0	87.6	87.0	81.8	82.1	83.0	82.2	82.1	82.1	80.8	81.5	79.1	72.6
250	94.6	93.6	93.9	92.7	92.5	89.1	84.6	85.2	84.7	79.5	79.7	80.7	80.0	79.9	79.8	78.5	79.1	76.8	70.3
315	92.2	91.2	91.5	90.2	90.0	86.7	82.2	82.8	82.3	77.1	77.3	78.3	77.7	77.6	77.4	76.1	76.7	74.4	67.9
400	89.7	88.7	88.9	87.6	87.5	84.2	79.7	80.2	79.7	74.6	74.8	75.8	75.4	75.3	74.9	73.6	74.2	71.9	65.3
500	87.1	86.1	86.2	84.9	84.8	81.5	77.0	77.5	77.0	71.9	72.1	73.1	73.0	72.9	72.3	71.0	71.6	69.3	62.6
630	84.4	83.3	83.4	82.1	81.9	78.6	74.1	74.7	74.2	69.1	69.3	70.3	70.6	70.4	69.6	68.2	68.8	66.6	59.8
800	81.5	80.4	80.3	79.0	78.8	75.6	71.1	71.6	71.2	66.3	66.3	67.3	68.0	67.8	66.7	65.3	65.8	64.0	56.8
1000	78.4	77.3	77.0	75.9	75.5	72.3	67.9	68.3	67.9	62.7	63.1	64.1	65.3	65.1	63.8	62.1	62.6	61.2	53.6
1250	75.0	73.9	73.5	72.4	71.8	68.7	64.2	64.6	64.2	59.0	59.5	60.8	62.4	62.2	60.7	59.1	59.0	58.1	49.9
1600	71.5	70.3	70.0	68.7	67.8	64.7	60.5	60.5	60.2	54.7	56.0	57.5	59.2	58.9	57.4	55.7	55.3	54.6	46.1
2000	67.8	66.3	66.2	64.5	63.7	60.9	56.7	55.8	55.7	49.9	52.2	53.9	55.9	55.5	53.7	51.9	51.3	51.0	41.8
2500	63.9	62.2	62.2	60.1	59.5	56.7	52.3	50.4	51.0	44.8	47.5	49.4	51.6	51.2	49.1	47.1	46.6	46.3	36.9
3150	59.4	57.7	57.6	55.5	54.9	52.1	47.8	44.8	45.7	39.1	42.0	44.1	46.7	46.2	43.8	41.8	40.9	40.6	30.0
4000	54.3	52.6	52.6	50.1	49.5	46.0	40.5	37.7	39.0	30.6	34.7	37.1	40.7	39.8	37.3	35.0	34.3	34.3	21.8
5000	48.5	46.3	46.6	43.5	42.7	39.3	33.2	29.0	30.8	18.7	24.6	29.0	33.2	32.9	30.8	26.8	25.8	25.4	12.5
6300	41.3	38.8	39.4	36.1	34.8	30.4	22.2	9.2	19.5	6.8	9.9	18.7	25.0	24.2	20.3	15.3	14.1	16.2	3.3
8000	33.7	32.4	31.4	26.4	23.9	19.2	11.2		8.2			8.5	18.5	17.6	9.8	3.8	2.3	6.9	
10000	24.3	22.6	20.1	10.2	13.0	8.1	.2						7.6	7.1					
12500	10.0	10.4	8.7		2.2														
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
IDLE, 50% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.9 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 01
AIRCRAFT CODE 509
OPERATION CODE 02013
PROFILE VERSION A
13 APR 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	96.9	95.9	97.5	96.5	96.9	93.6	88.8	90.4	89.1	84.6	83.6	84.9	82.9	82.6	83.4	82.5	83.1	80.3	73.8
250	94.6	93.6	95.2	94.1	94.5	91.2	86.5	88.1	86.7	82.2	81.3	82.5	80.7	80.4	81.0	80.1	80.8	78.0	71.4
315	92.2	91.2	92.7	91.7	92.1	88.8	84.1	85.7	84.3	79.8	78.9	80.1	78.4	78.1	78.6	77.8	78.4	75.6	69.0
400	89.7	88.7	90.2	89.1	89.5	86.2	81.5	83.1	81.8	77.3	76.3	77.6	76.1	75.8	76.2	75.3	75.9	73.1	66.5
500	87.1	86.1	87.5	86.4	86.8	83.5	78.9	80.4	79.1	74.6	73.7	75.0	73.7	73.4	73.6	72.7	73.2	70.5	63.8
630	84.4	83.3	84.6	83.5	83.9	80.7	76.0	77.5	76.2	71.8	70.9	72.2	71.2	70.9	70.8	69.9	70.4	67.8	61.0
800	81.5	80.4	81.6	80.5	80.8	77.6	73.0	74.5	73.2	68.7	67.9	69.2	68.7	68.3	67.9	67.0	67.5	65.2	57.9
1000	78.4	77.3	78.3	77.3	77.5	74.4	69.8	71.2	70.0	65.4	64.6	66.0	66.0	65.6	65.1	63.8	64.2	62.3	54.7
1250	75.0	73.9	74.8	73.9	73.8	70.8	66.1	67.4	66.3	61.7	61.0	62.7	63.1	62.7	61.9	60.8	60.6	59.3	51.1
1600	71.5	70.3	71.2	70.2	69.8	66.7	62.3	63.4	62.3	57.4	57.5	59.4	59.9	59.4	58.6	57.4	57.0	55.8	47.3
2000	67.8	66.3	67.5	66.0	65.7	63.0	58.5	58.6	57.8	52.6	53.8	55.7	56.5	56.0	55.0	53.6	53.0	52.2	43.0
2500	63.9	62.2	63.4	61.6	61.5	58.7	54.2	53.2	53.0	47.5	49.2	51.2	52.2	51.7	50.4	48.8	48.2	47.5	38.1
3150	59.4	57.7	58.9	56.9	56.9	54.1	48.9	47.6	47.7	41.9	43.6	45.9	47.4	46.7	45.0	43.4	42.5	41.8	31.2
4000	54.3	52.6	53.6	51.3	51.1	47.7	42.0	40.0	40.7	32.8	35.9	38.5	41.3	40.2	38.2	36.3	35.6	35.2	22.7
5000	48.5	46.3	47.4	44.4	43.9	40.5	34.3	30.7	32.0	20.3	25.5	30.1	33.6	33.2	31.5	27.8	26.8	26.1	13.2
6300	41.3	38.8	39.9	36.6	35.6	31.2	22.9	10.4	20.3	7.9	10.5	19.4	25.3	24.4	20.8	16.0	14.7	16.6	3.7
8000	33.7	32.4	31.7	26.6	24.3	19.6	11.6		8.6			8.9	18.6	17.7	10.0	4.2	2.7	7.2	
10000	24.3	22.6	20.1	10.2	13.0	8.1	.2						7.6	7.1					
12500	10.0	10.4	8.7		2.2														
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
IDLE, 50% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.9 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 01
AIRCRAFT CODE 509
OPERATION CODE 02013
PROFILE VERSION A
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DISTANCE (FEET)	ANGLE (DEGREES)																	
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	83.2	81.7	81.8	80.4	79.8	76.3	71.6	71.4	71.1	66.1	67.1	68.2	69.4	69.1	68.0	66.4	66.3	65.2	58.8
250	80.9	79.4	79.5	78.1	77.5	74.0	69.4	69.1	68.9	63.9	64.9	66.0	67.4	67.0	65.9	64.3	64.2	63.1	56.8
315	78.6	77.1	77.2	75.7	75.1	71.7	67.1	66.8	66.6	61.7	62.8	63.9	65.3	64.9	63.8	62.1	62.0	61.0	54.6
400	76.2	74.7	74.8	73.3	72.6	69.3	64.8	64.4	64.3	59.4	60.5	61.6	63.2	62.8	61.6	59.9	59.8	58.8	52.5
500	73.8	72.2	72.3	70.8	70.1	66.8	62.4	61.9	61.8	57.0	58.2	59.3	61.0	60.6	59.3	57.7	57.5	56.6	50.3
630	71.2	69.6	69.7	68.1	67.4	64.2	59.8	59.2	59.3	54.5	55.8	57.0	58.7	58.3	57.0	55.3	55.1	54.3	48.0
800	68.6	66.9	67.0	65.4	64.6	61.5	57.2	56.5	56.6	51.9	53.3	54.5	55.5	56.0	54.6	52.9	52.6	52.0	45.6
1000	65.8	64.1	64.2	62.5	61.7	58.7	54.5	53.6	53.8	49.2	50.7	52.0	54.1	53.6	52.1	50.4	50.1	49.5	43.2
1250	62.9	61.2	61.2	59.5	58.7	55.7	51.6	50.4	50.9	46.3	47.9	49.3	51.6	51.1	49.5	47.8	47.4	47.0	40.5
1600	59.9	58.2	58.2	56.3	55.4	52.6	48.5	47.2	47.6	43.2	44.9	46.5	49.0	48.4	46.8	45.1	44.6	44.3	37.8
2000	56.7	55.0	54.9	52.9	52.0	49.4	45.3	43.7	44.5	40.0	41.9	43.6	46.3	45.7	43.9	42.2	41.8	41.5	35.0
2500	53.4	51.6	51.5	49.4	48.4	45.9	41.8	39.9	41.1	36.4	38.4	40.3	43.1	42.5	40.8	39.0	38.6	38.4	31.9
3150	49.8	48.0	47.9	45.6	44.6	42.2	38.0	36.0	37.3	32.6	34.6	36.8	39.7	39.0	37.4	35.6	35.2	34.9	28.6
4000	45.9	44.2	43.9	41.5	40.5	38.2	34.0	31.7	33.3	28.6	30.6	32.8	35.9	35.2	33.6	31.8	31.4	31.1	24.8
5000	41.6	39.9	39.6	37.1	36.0	33.9	29.6	27.2	29.0	24.2	26.2	28.5	31.6	30.9	29.5	27.7	27.2	26.9	20.6
6300	36.9	35.3	34.8	32.4	31.1	29.2	24.8	22.4	24.4	19.6	21.6	24.1	27.2	26.5	25.1	23.3	22.8	22.4	16.2
8000	32.1	30.8	30.1	27.5	26.2	24.5	20.3	18.1	20.2	15.8	17.8	20.4	23.5	22.8	21.2	19.5	19.0	18.7	12.6
10000	27.0	26.0	25.0	22.3	21.0	19.5	15.6	13.7	15.8	11.7	13.9	16.5	19.6	18.9	17.1	15.3	14.9	14.8	8.7
12500	21.5	20.8	19.6	16.8	15.5	14.2	10.7	9.2	11.2	7.5	9.8	12.3	15.3	14.7	12.6	10.9	10.4	10.5	4.4
16000	15.6	15.3	13.9	10.9	9.8	8.7	5.7	4.7	6.4	3.1	5.4	7.8	10.7	10.0	7.7	6.1	5.7	5.8	
20000	9.2	9.2	7.9	4.8	3.9	2.9	.7	.2	1.4		.9	3.0	5.6	5.1	2.6	1.2	.7	.9	
25000	2.4	2.7	1.6										.2						

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 01
AIRCRAFT CODE 509
OPERATION CODE 02013
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NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
IDLE, 50% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.9 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	83.2	81.7	83.1	81.8	81.8	78.3	73.5	74.3	73.2	68.8	68.6	70.0	70.1	69.6	69.2	68.0	68.0	66.4	60.0
250	80.9	79.4	80.8	79.5	79.5	76.1	71.3	72.0	71.0	66.7	66.5	67.8	68.1	67.5	67.1	65.9	65.8	64.3	57.9
315	78.6	77.1	78.4	77.2	77.1	73.8	69.0	69.7	68.7	64.4	64.3	65.7	66.0	65.4	65.0	63.8	63.6	62.2	55.8
400	76.2	74.7	76.0	74.7	74.6	71.4	66.7	67.3	66.3	62.2	62.1	63.5	63.8	63.3	62.8	61.6	61.4	60.0	53.7
500	73.8	72.2	73.5	72.2	72.1	68.9	64.2	64.8	63.3	59.8	59.7	61.2	61.7	61.1	60.5	59.3	59.1	57.8	51.4
630	71.2	69.6	70.9	69.6	69.4	66.3	61.7	62.1	61.3	57.2	57.3	58.8	59.4	58.8	58.2	57.0	56.7	55.5	49.1
800	68.6	66.9	68.2	66.8	66.7	63.6	59.1	59.4	58.6	54.6	54.8	56.3	57.1	56.5	55.8	54.6	54.3	53.1	46.8
1000	65.8	64.1	65.4	64.0	63.7	60.8	56.4	56.4	55.9	51.9	52.2	53.8	54.8	54.1	53.4	52.1	51.7	50.7	44.3
1250	62.9	61.2	62.5	60.9	60.7	57.8	53.4	53.3	52.9	49.0	49.4	51.1	52.3	51.6	50.7	49.5	49.0	48.1	41.7
1600	59.9	58.2	59.4	57.7	57.4	54.7	50.4	50.0	49.8	45.9	46.5	48.3	49.6	48.9	48.0	46.7	46.3	45.5	39.0
2000	56.7	55.0	56.2	54.4	54.0	51.4	47.2	46.6	46.6	42.7	43.4	45.4	46.9	46.2	45.2	43.9	43.4	42.7	36.2
2500	53.4	51.8	52.8	50.8	50.4	48.0	43.7	42.8	43.1	39.2	40.0	42.2	43.8	43.0	42.0	40.7	40.2	39.6	33.1
3150	49.8	48.0	49.1	47.0	46.6	44.3	39.9	38.8	39.4	35.4	36.2	38.6	40.4	39.5	38.6	37.3	36.8	36.1	29.8
4000	45.8	44.2	44.9	42.7	42.1	39.9	35.5	34.0	35.0	30.7	31.8	34.3	36.4	35.6	34.6	33.2	32.7	32.0	25.8
5000	41.6	39.9	40.3	38.0	37.2	35.2	30.7	28.9	30.2	25.8	27.1	29.6	32.0	31.2	30.2	28.7	28.2	27.6	21.3
6300	36.9	35.3	35.3	32.9	31.9	30.0	25.6	23.6	25.2	20.7	22.2	24.8	27.4	26.7	25.6	24.0	23.5	22.9	16.7
8000	32.1	30.8	30.3	27.8	26.6	24.9	20.7	18.7	20.6	16.3	18.2	20.8	23.7	22.9	21.5	19.8	19.3	19.0	12.8
10000	27.0	26.0	25.0	22.3	21.0	19.5	15.6	13.7	15.8	11.7	13.9	16.5	19.6	18.9	17.1	15.3	14.9	14.8	8.7
12500	21.5	20.8	19.6	16.8	15.5	14.2	10.7	9.2	11.2	7.5	9.8	12.3	15.3	14.7	12.6	10.9	10.4	10.5	4.4
16000	15.6	15.3	13.9	10.9	9.8	8.7	5.7	4.7	6.4	3.1	5.4	7.8	10.7	10.0	7.7	6.1	5.7	5.8	
20000	9.2	9.2	7.9	4.8	3.9	2.9	.7	.2	1.4		.9	3.0	5.6	5.1	2.6	1.2	.7	.9	
25000	2.4	2.7	1.6										.2						

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
IDLE, 50% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.2 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 01
AIRCRAFT CODE 509
OPERATION CODE 02013
PROFILE VERSION A
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P=PNLT A=AL T=ALT

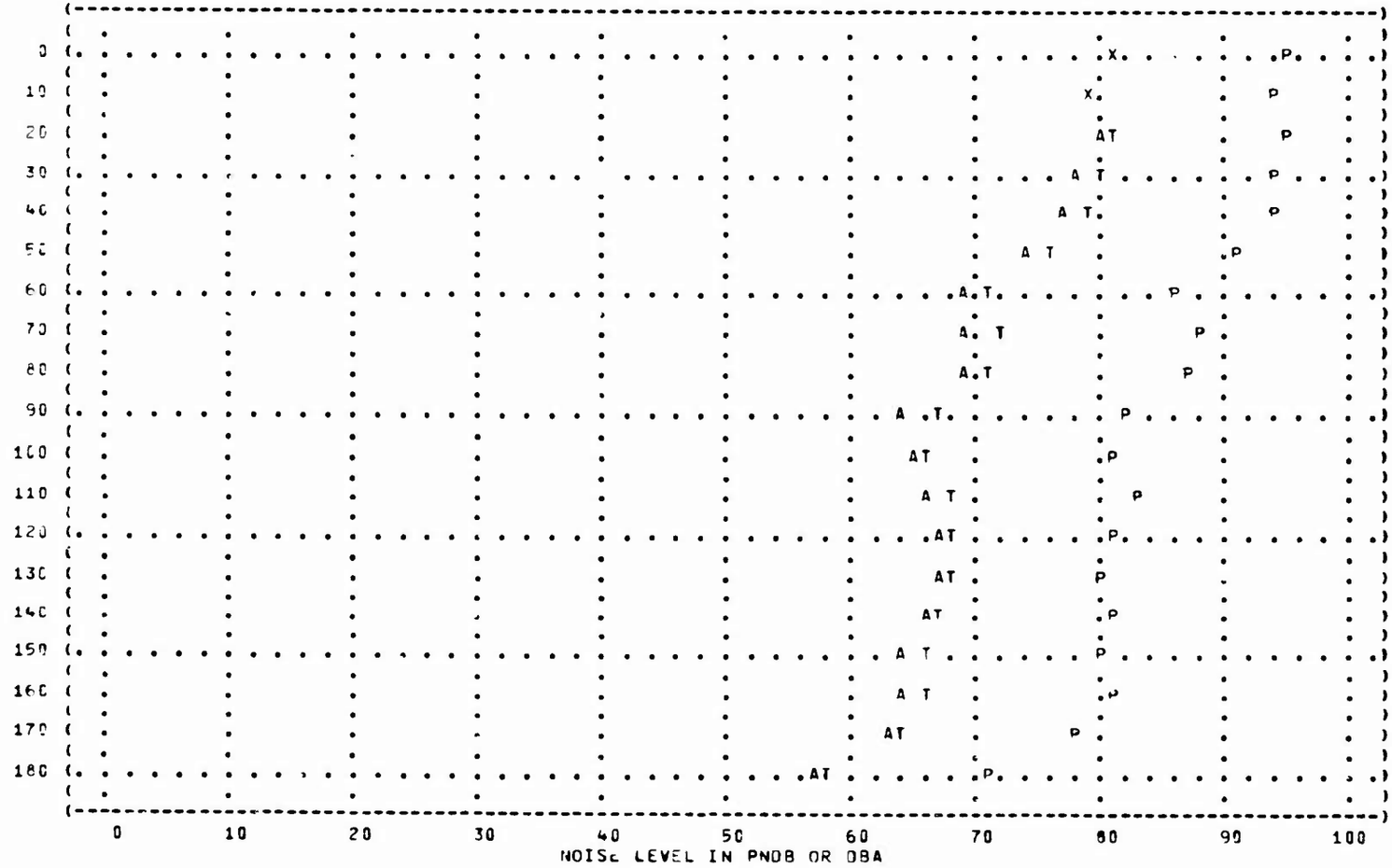


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 02
AIRCRAFT CODE 509
OPERATION CODE 02019
PROFILE VERSION A
13 APR 76
PAGE C2

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
ENG RUNUP 80% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	61	60	62	63	63	63	63	63	62	64	64	66	71	73	77	78	77	71	51
63	63	62	64	64	66	65	65	6o	65	66	66	67	70	74	78	79	79	68	48
80	65	66	66	67	65	68	68	67	66	68	68	69	73	77	80	81	80	63	43
100	67	69	68	68	o7	69	67	68	69	71	71	72	74	78	82	84	81	62	42
125	71	72	72	72	71	72	71	71	73	74	73	74	76	80	84	87	82	59	39
160	79	78	79	79	77	78	78	78	80	79	80	81	82	82	84	87	83	59	39
200	75	75	76	77	76	77	76	77	77	77	78	80	81	82	80	86	82	57	37
250	75	77	79	80	79	78	78	77	78	77	76	77	79	81	80	82	78	56	36
315	74	76	77	76	77	75	76	75	75	75	74	76	79	80	80	80	76	52	32
400	74	76	75	76	75	72	74	72	74	72	72	74	76	77	77	76	73	50	30
500	70	70	72	71	70	67	68	69	70	70	69	71	73	75	76	75	71	48	28
630	72	71	72	72	71	o7	68	69	70	70	o6	69	71	73	75	73	69	47	27
800	72	70	70	71	69	66	67	68	69	68	66	67	69	71	73	71	66	45	25
1000	69	69	69	68	65	65	65	b6	68	67	64	65	68	70	72	70	64	42	22
1250	69	69	69	68	65	64	65	67	66	66	61	62	63	69	69	66	61	39	19
1600	72	71	71	69	68	67	64	67	66	68	61	64	63	69	68	66	60	40	20
2000	76	75	74	72	70	70	65	67	66	67	60	64	63	68	66	64	59	40	20
2500	76	75	73	72	70	68	64	67	66	66	59	64	61	67	64	62	59	39	19
3150	72	71	70	70	68	67	63	67	66	67	60	64	60	64	62	62	58	38	18
4000	71	71	70	70	67	67	63	65	65	65	56	62	58	63	60	60	56	35	15
5000	75	76	75	73	72	70	65	66	66	63	56	59	53	57	59	57	56	36	16
6300	74	74	73	73	71	70	65	66	65	63	54	57	51	55	57	56	55	33	13
8000	69	68	67	66	64	62	58	59	59	59	49	55	48	54	54	53	50	27<	7
10000	69	70	69	67	65	63	58	59	59	57	49	54	46	51	54	50	49	21<	1
OVERALL	87	87	87	87	86	85	85	85	8o	85	85	86	88	90	91	94	90	74	54

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
ENG RUNUP 80% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 02
AIRCRAFT CODE 509
OPERATION CODE 02019
PROFILE VERSION A
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DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	101.3	101.3	101.1	100.0	98.3	97.3	94.3	95.8	95.8	95.9	92.3	94.6	95.0	97.6	97.9	99.3	95.4	72.3	48.4
250	99.1	99.0	98.7	97.7	95.9	94.9	92.1	93.5	93.5	93.6	90.1	92.4	92.9	95.5	95.8	97.2	93.3	70.0	45.6
315	96.7	96.5	96.3	95.3	93.5	92.5	89.9	91.2	91.2	91.3	87.9	90.2	90.7	93.3	93.6	95.0	91.1	67.7	42.6
400	94.3	94.0	93.8	92.7	91.0	90.0	87.5	88.8	88.8	88.9	85.6	87.9	88.4	91.0	91.3	92.8	88.8	65.3	38.8
500	91.8	91.3	91.1	90.1	88.3	87.3	85.0	86.2	86.2	86.4	83.0	85.3	86.0	88.6	89.0	90.4	86.3	62.8	34.5
630	89.1	88.6	88.2	87.4	85.6	84.4	82.3	83.5	83.5	83.7	80.3	82.6	83.6	86.1	86.6	87.8	83.6	60.0	28.1
800	86.3	85.8	85.4	84.6	82.8	81.5	79.6	80.6	80.7	80.8	77.5	79.9	81.1	83.5	84.0	85.1	80.8	56.9	22.9
1000	83.2	82.8	82.4	81.5	79.8	78.5	76.8	77.6	77.7	77.8	74.6	77.2	78.4	80.8	81.3	82.1	77.8	53.5	13.1
1250	80.0	79.6	79.1	78.3	76.5	75.4	73.7	74.4	74.8	74.6	71.6	74.0	75.4	77.8	78.3	78.8	74.5	49.8	3.4
1600	76.6	76.1	75.8	74.9	73.1	72.0	70.7	71.0	71.7	71.0	68.6	71.0	72.3	74.7	75.2	75.3	71.1	46.1	
2000	73.0	72.3	72.1	71.1	69.7	68.3	67.5	67.5	68.5	67.8	65.4	67.8	69.1	71.6	72.0	71.6	67.8	41.6	
2500	69.0	68.3	68.2	67.1	65.6	64.3	63.4	63.5	64.5	63.7	61.4	63.8	65.2	67.6	68.1	67.7	63.7	35.1	
3150	64.6	63.8	63.8	62.6	61.1	59.7	58.8	58.9	60.0	59.2	56.8	59.3	60.7	63.2	63.8	63.5	59.0	26.2	
4000	59.7	58.9	58.8	57.0	56.0	54.5	53.6	54.1	54.8	54.4	51.3	54.1	55.6	58.3	59.0	58.6	53.8	16.6	
5000	54.1	53.3	53.2	51.9	50.2	48.1	47.4	48.3	49.2	48.8	45.6	48.5	50.3	53.1	53.9	53.3	48.3	6.9	
6300	47.5	46.4	46.4	45.9	44.4	41.2	41.0	42.5	43.3	42.9	39.5	42.5	44.3	47.3	48.4	47.6	42.0		
8000	40.6	39.8	40.8	40.0	38.8	35.5	35.2	37.0	38.0	37.2	34.3	37.5	39.7	42.7	43.6	43.0	37.1		
10000	34.2	33.9	34.7	34.4	32.3	27.2	29.1	30.0	31.5	31.0	27.2	31.5	34.0	37.1	38.7	37.9	31.6		
12500	25.5	26.1	26.4	26.4	24.3	19.3	21.4	20.7	22.0	21.9	18.8	23.9	27.3	31.2	32.1	32.6	23.4		
16000	16.2	16.3	16.0	16.4	15.2	7.1	9.3	7.0	13.4	10.6	7.0	13.2	18.9	22.1	24.6	23.9	12.7		
20000	6.9	6.6	5.5	6.3	6.1				4.7			2.4	10.4	11.1	12.7	10.0	1.9		
25000													1.9	.1	.9				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
ENG RUNUP 80% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 02
AIRCRAFT CODE 509
OPERATION CODE 02019
PROFILE VERSION A
13 APR 76
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	▸180
200	102.3	102.5	102.3	101.5	99.6	98.6	95.0	96.4	96.8	96.4	93.0	95.2	95.0	97.6	97.9	99.3	95.4	72.3	48.4
250	100.0	100.1	100.0	99.1	97.3	96.3	92.8	94.2	94.6	94.2	90.9	93.0	92.9	95.5	95.8	97.2	93.3	70.0	45.6
315	97.7	97.7	97.5	96.7	94.9	93.8	90.6	91.8	92.2	91.9	88.7	90.8	90.7	93.3	93.6	95.0	91.1	67.7	42.6
400	95.2	95.1	95.0	94.2	92.3	91.3	88.3	89.4	89.8	89.4	86.3	88.5	88.4	91.0	91.3	92.8	88.8	65.3	38.8
500	92.7	92.5	92.3	91.5	89.7	88.6	85.8	86.9	87.3	86.9	83.8	86.9	86.0	88.6	[illegible].0	90.4	85.3	62.8	34.5
630	90.0	89.8	89.4	88.8	86.9	85.7	83.0	84.2	84.6	84.2	81.1	83.2	83.6	86.1	86.6	87.8	83.6	60.0	28.1
800	87.2	87.0	86.6	86.0	84.1	82.8	80.3	81.3	81.7	81.4	78.2	80.5	81.1	83.5	84.0	85.1	80.8	56.9	22.9
1000	84.2	84.0	83.6	83.0	81.1	79.9	77.5	78.3	78.8	78.4	75.4	77.8	78.4	80.8	81.3	82.1	77.8	53.5	13.1
1250	80.9	80.7	80.3	79.7	77.9	76.7	74.5	75.1	75.8	75.1	72.4	74.7	75.4	77.8	78.3	78.8	74.5	49.8	3.4
1600	77.5	77.3	77.0	76.3	74.5	73.3	71.4	71.7	72.8	71.6	69.4	71.6	72.3	74.7	75.2	75.3	71.1	46.1	
2000	73.9	73.5	73.4	72.5	71.0	69.7	68.2	68.2	69.6	68.3	66.2	68.4	69.1	71.6	72.0	71.6	67.8	41.6	
2500	69.9	69.5	69.4	68.5	67.0	65.6	64.2	64.2	65.6	64.3	62.2	64.4	65.2	67.6	68.1	67.7	63.7	35.1	
3150	65.5	65.0	65.0	64.0	62.5	61.0	59.6	59.6	61.0	59.8	57.5	59.9	60.7	63.2	63.8	63.5	59.0	26.2	
4000	60.4	59.8	59.8	58.7	57.1	55.5	54.2	54.7	55.7	54.8	51.9	54.5	55.6	58.3	59.0	58.6	53.8	16.6	
5000	54.7	54.0	53.9	52.8	51.0	48.9	47.8	48.7	49.8	49.1	46.1	48.9	50.3	53.1	53.9	53.3	48.3	6.9	
6300	47.9	46.9	46.9	46.5	44.9	41.8	41.3	42.7	43.8	43.1	39.8	42.8	44.3	47.3	48.4	47.6	42.0		
8000	41.0	40.1	41.0	40.9	39.0	35.7	35.4	37.1	38.2	37.3	34.5	37.7	39.7	42.7	43.6	43.0	37.1		
10000	34.2	33.9	34.7	34.4	32.3	27.2	29.1	30.0	31.5	31.0	27.2	31.5	34.0	37.1	38.7	37.9	31.6		
12500	25.5	26.1	26.4	26.4	24.3	19.3	21.4	20.7	22.0	21.3	18.8	23.9	27.3	31.2	32.1	32.6	23.4		
16000	16.2	16.3	16.0	16.4	15.2	7.1	9.3	7.0	13.4	10.6	7.0	13.2	18.9	22.1	24.6	23.9	12.7		
20000	6.9	6.6	5.5	6.3	6.1				4.7			2.4	10.4	11.1	12.7	10.0	1.9		
25000													1.9	.1	.3				

▸ SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG: J85-GE-21
GROUND RUNUP

OPERATION:
ENG RUNUP 80% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 02
AIRCRAFT CODE 509
OPERATION CODE 02019
PROFILE VERSION A
13 APR 76
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	87.2	86.7	86.4	85.5	83.8	82.6	80.6	81.7	81.9	81.6	78.6	80.9	82.1	84.3	84.7	84.9	80.7	58.5	38.5
250	84.9	84.4	84.1	83.2	81.6	80.3	78.5	79.5	79.7	79.5	76.6	78.8	80.1	82.2	82.6	82.9	78.7	56.4	36.4
315	82.5	82.1	81.8	81.0	79.3	78.1	76.3	77.3	77.6	77.3	74.5	76.7	78.0	80.2	80.5	80.8	76.6	54.4	34.4
400	80.1	79.7	79.4	78.6	77.0	75.7	74.1	75.1	75.3	75.1	72.4	74.5	75.9	78.0	78.4	78.7	74.5	52.2	32.2
500	77.7	77.2	77.0	76.2	74.6	73.3	71.8	72.7	73.1	72.8	70.1	72.3	73.7	75.8	76.2	76.5	72.3	50.0	30.0
630	75.1	74.6	74.5	73.7	72.1	70.8	69.5	70.3	70.7	70.4	67.8	70.0	71.4	73.5	74.0	74.1	69.9	47.7	27.7
800	72.5	72.0	71.9	71.1	69.6	68.2	67.0	67.9	68.2	68.0	65.4	67.6	69.1	71.2	71.7	71.7	67.5	45.4	25.4
1000	69.8	69.3	69.2	68.4	66.9	65.5	64.5	65.3	65.7	65.5	62.9	65.1	66.7	68.8	69.3	69.2	65.0	42.9	22.9
1250	66.9	66.4	66.3	65.6	64.2	62.6	61.8	62.6	63.1	62.8	60.3	62.5	64.1	66.2	66.8	66.5	62.3	40.3	20.3
1600	64.0	63.5	63.4	62.7	61.3	59.6	59.1	59.8	60.3	60.0	57.5	59.7	61.4	63.5	64.1	63.6	59.5	37.4	17.4
2000	60.9	60.4	60.4	59.8	58.3	56.5	56.2	56.8	57.5	57.1	54.6	56.8	58.6	60.6	61.4	60.7	56.5	34.5	14.5
2500	57.5	57.0	57.0	56.5	55.0	53.1	52.9	53.6	54.3	53.9	51.4	53.6	55.4	57.4	58.3	57.4	53.2	31.1	11.1
3150	53.9	53.3	53.5	52.9	51.4	49.4	49.3	50.1	50.8	50.4	47.8	50.0	51.8	53.9	54.9	53.8	49.6	27.5	7.5
4000	50.0	49.3	49.5	49.0	47.5	45.3	45.4	46.2	47.0	46.6	43.9	46.1	47.9	50.1	51.2	49.9	45.6	23.5	3.5
5000	45.6	44.9	45.2	44.7	43.1	40.9	41.1	42.0	42.8	42.4	39.6	41.9	43.6	45.8	47.0	45.6	41.2	19.2	
6300	40.9	40.2	40.6	40.1	38.5	36.2	36.5	37.5	38.4	38.0	35.1	37.3	39.2	41.3	42.6	41.2	36.8	14.8	
8000	36.6	36.0	36.4	36.1	34.6	32.2	32.7	33.5	34.5	34.0	31.4	33.6	35.6	37.5	38.9	37.6	33.2	11.2	
10000	32.0	31.5	32.0	31.9	30.5	27.9	28.6	29.3	30.3	29.8	27.5	29.7	31.7	33.5	34.9	33.8	29.5	7.5	
12500	27.2	26.8	27.4	27.4	26.2	23.5	24.3	24.7	25.9	25.3	23.3	25.5	27.5	29.2	30.5	29.7	25.4	3.6	
16000	22.1	21.8	22.5	22.5	21.4	18.9	19.6	19.9	21.0	20.4	18.8	20.9	22.9	24.6	25.8	25.3	21.1		
20000	16.6	16.5	17.2	17.3	16.4	14.0	14.6	14.7	15.9	15.3	14.0	16.0	18.0	19.6	20.7	20.7	16.6		
25000	10.7	10.9	11.6	11.8	10.9	8.9	9.4	9.3	10.4	9.8	8.9	10.9	12.8	14.4	15.3	16.1	12.0		

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
ENG RUNUP 80% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 02
AIRCRAFT CODE 509
OPERATION CODE 02019
PROFILE VERSION A
13 APR 76
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	88.1	87.9	87.6	86.9	85.1	83.9	81.3	82.3	83.0	82.2	79.4	81.5	82.1	84.3	84.7	84.9	80.7	58.5	38.5
250	85.8	85.6	85.4	84.7	82.9	81.7	79.2	80.2	80.8	80.0	77.3	79.4	80.1	82.2	82.6	82.9	78.7	56.4	36.4
315	83.5	83.3	83.0	82.4	80.6	79.4	77.0	78.0	78.6	77.9	75.2	77.3	78.0	80.2	80.5	80.8	76.6	54.4	34.4
400	81.1	80.9	80.7	80.0	78.3	77.1	74.8	75.7	76.4	75.6	73.1	75.1	75.9	78.0	78.4	78.7	74.5	52.2	32.2
500	78.6	78.4	78.2	77.6	75.9	74.6	72.5	73.4	74.1	73.4	70.9	72.9	73.7	75.8	76.2	76.5	72.3	50.0	30.0
630	76.1	75.8	75.7	75.1	73.5	72.1	70.2	71.0	71.7	71.0	68.6	70.6	71.4	73.5	74.0	74.1	69.9	47.7	27.7
800	73.4	73.2	73.1	72.5	70.9	69.5	67.7	68.5	69.3	68.6	66.2	68.2	69.1	71.2	71.7	71.7	67.5	45.4	25.4
1000	70.7	70.5	70.4	69.9	68.3	66.8	65.2	66.0	66.8	66.0	63.7	65.7	66.7	68.8	69.3	69.2	65.0	42.9	22.9
1250	67.9	67.6	67.5	67.1	65.5	64.0	62.6	63.3	64.1	63.4	61.0	63.1	64.1	66.2	66.8	66.5	62.3	40.3	20.3
1600	64.9	64.6	64.6	64.2	62.6	61.0	59.8	60.4	61.4	60.6	58.3	60.3	61.4	63.5	64.1	63.6	59.5	37.4	17.4
2000	61.8	61.6	61.6	61.2	59.7	57.9	56.9	57.5	58.5	57.7	55.4	57.5	58.6	60.6	61.4	60.7	56.5	34.5	14.5
2500	58.4	58.1	58.3	57.9	56.4	54.4	53.6	54.2	55.3	54.5	52.1	54.2	55.4	57.4	58.3	57.4	53.2	31.1	11.1
3150	54.8	54.5	54.7	54.3	52.8	50.7	50.0	50.7	51.9	51.0	48.5	50.6	51.8	53.9	54.9	53.8	49.6	27.5	7.5
4000	50.7	50.3	50.5	50.1	48.6	46.4	45.9	46.8	47.9	47.1	44.5	46.6	47.9	50.1	51.2	49.9	45.6	23.5	3.5
5000	46.2	45.6	45.9	45.5	43.9	41.7	41.5	42.4	43.5	42.8	40.0	42.2	43.6	45.8	47.0	45.6	41.2	19.2	
6300	41.3	40.7	41.0	40.7	39.0	36.7	36.8	37.8	38.8	38.2	35.4	37.6	39.2	41.3	42.6	41.2	36.8	14.8	
8000	36.7	36.2	36.6	36.4	34.9	32.4	32.9	33.7	34.7	34.1	31.6	33.8	35.6	37.5	38.9	37.6	33.2	11.2	
10000	32.0	31.5	32.0	31.9	30.5	27.9	28.6	29.3	30.3	29.8	27.5	29.7	31.7	33.5	34.9	33.8	29.5	7.5	
12500	27.2	26.8	27.4	27.4	26.2	23.5	24.3	24.7	25.9	25.3	23.3	25.5	27.5	29.2	30.5	29.7	25.4	3.6	
16000	22.1	21.8	22.5	22.5	21.4	18.9	19.6	19.9	21.0	20.4	18.8	20.9	22.9	24.6	25.8	25.3	21.1		
20000	16.6	16.5	17.2	17.3	16.4	14.0	14.6	14.7	15.9	15.3	14.0	16.0	18.0	19.6	20.7	20.7	16.6		
25000	10.7	10.9	11.6	11.8	10.9	6.9	9.4	9.3	10.4	9.8	8.9	10.9	12.8	14.4	15.3	16.1	12.0		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

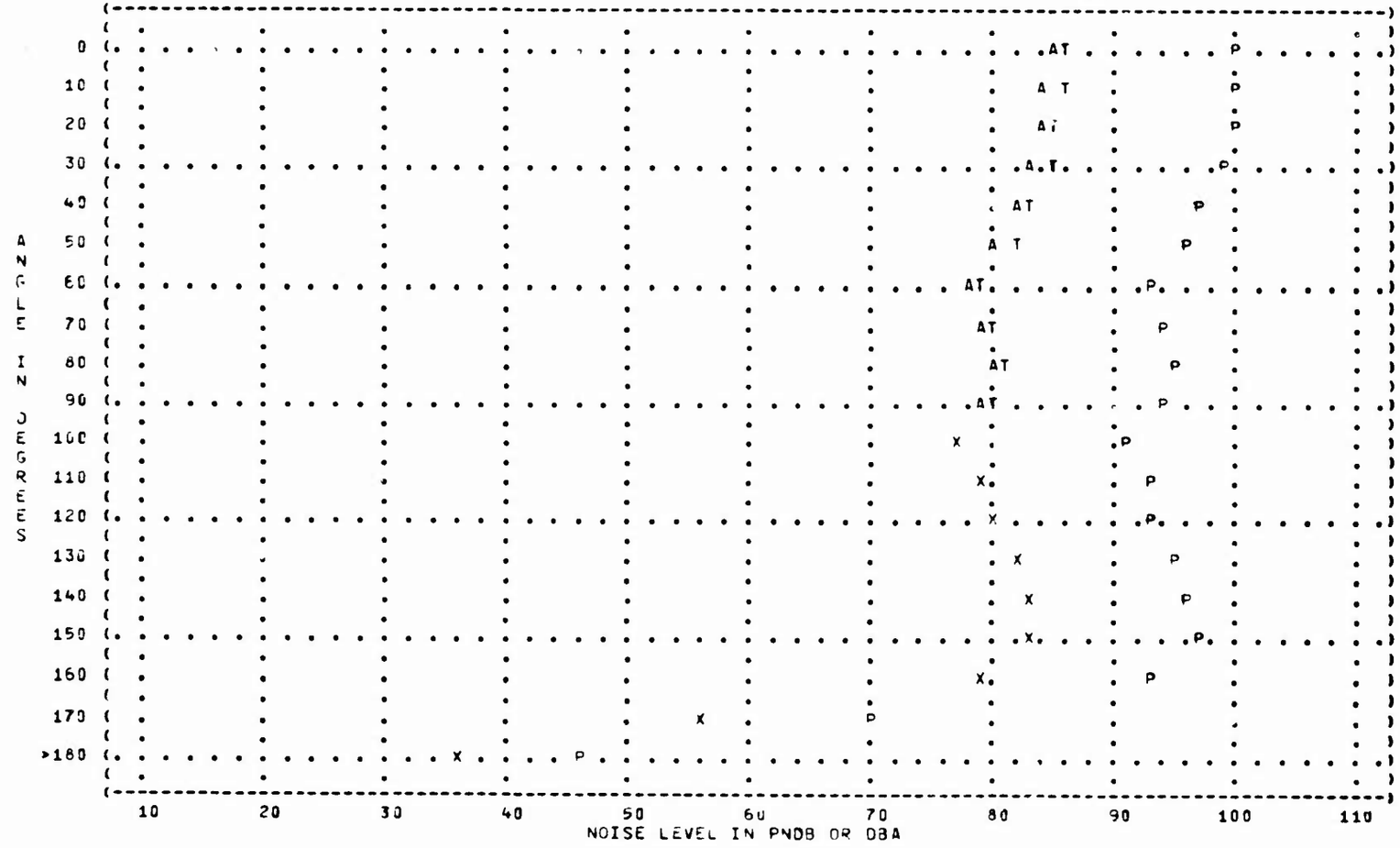
NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
ENG RUNUP 80% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 02
AIRCRAFT CODE 509
OPERATION CODE 02019
PROFILE VERSION A
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P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 03
AIRCRAFT CODE 509
OPERATION CODE 02004
PROFILE VERSION A
13 APR 76
PAGE 03

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
MIL PWR, 100% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	76	75	74	77	77	77	79	80	80	80	82	84	88	94	99	100	97	83	63
63	77	77	77	77	79	80	80	80	82	83	83	86	92	96	101	102	98	81	61
80	80	79	79	80	79	81	82	82	83	85	84	88	94	99	104	104	99	77	57
100	82	81	81	83	81	83	84	84	85	88	86	90	96	102	108	105	100	77	57
125	83	83	84	84	84	86	85	86	87	89	89	93	98	104	110	106	102	79	59
160	85	85	85	86	83	86	86	87	88	89	92	96	100	103	109	109	102	79	59
200	87	87	87	86	86	86	87	87	89	90	93	98	102	103	105	107	102	75	55
250	89	89	88	88	88	88	88	88	90	91	93	96	103	105	103	107	103	76	56
315	90	92	92	89	89	87	88	89	91	92	94	98	103	106	106	107	104	75	55
400	91	93	92	91	90	88	88	88	92	92	93	97	104	103	106	107	103	76	56
500	90	92	93	92	89	86	88	88	92	91	93	96	103	104	105	106	101	76	56
630	93	92	94	94	91	87	89	89	93	93	92	96	102	103	106	105	99	75	55
800	94	92	93	93	89	86	90	89	92	92	90	96	99	101	103	104	97	74	54
1000	96	97	98	96	93	88	91	89	92	92	90	95	98	99	101	102	95	72	52
1250	93	94	96	97	95	91	93	91	92	92	88	93	95	96	99	101	93	71	51
1600	90	92	93	94	93	92	96	94	94	94	89	93	95	96	97	100	92	70	50
2000	90	90	93	93	91	91	94	96	98	95	90	93	95	95	95	98	91	68	48
2500	88	87	90	90	90	88	90	94	95	93	88	92	94	93	94	97	89	67	47
3150	86	85	88	89	89	86	89	93	93	93	87	91	93	91	92	94	87	65	45
4000	85	84	86	87	87	85	89	92	93	93	87	90	93	90	91	94	87	65	45
5000	81	79	81	82	82	80	84	87	89	89	83	87	90	87	89	93	85	61	41
6300	82	78	80	81	81	79	83	85	87	87	81	85	87	86	85	90	81	56	36
8000	79	76	78	79	79	77	81	84	85	86	79	84	87	85	84	89	81	53	33
10000	73	71	73	75	75	72	77	81	81	83	75	83	85	83	82	86	78	54	34
OVERALL	103	103	105	104	102	100	103	103	105	105	103	108	112	114	117	117	112	90	70

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 03
AIRCRAFT CODE 509
OPERATION CODE 02004
PROFILE VERSION A
13 APR 76
PAGE 03

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
MIL PWR, 100% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	115.2	115.2	116.9	117.0	116.1	114.4	117.2	118.8	120.3	120.0	115.8	119.9	123.3	124.0	125.7	127.2	121.6	97.4	76.5
250	113.0	113.1	114.7	114.8	113.8	112.2	115.0	116.6	118.1	117.7	113.5	117.6	121.1	121.9	123.6	125.0	119.5	95.1	74.3
315	110.7	110.8	112.5	112.5	111.6	109.9	112.7	114.3	115.8	115.3	111.2	115.4	118.9	119.7	121.5	122.9	117.3	92.8	71.9
400	108.4	108.5	110.1	110.2	109.2	107.6	110.4	111.9	113.5	112.9	108.9	113.0	116.7	117.5	119.3	120.6	115.1	90.5	69.5
500	105.9	106.1	107.8	107.8	106.8	105.2	108.0	109.5	111.1	110.4	106.5	110.6	114.4	115.2	117.0	118.4	112.9	88.8	67.0
630	103.4	103.7	105.3	105.3	104.2	102.7	105.5	106.9	108.5	107.7	103.9	108.1	112.0	112.9	114.7	116.0	110.5	85.4	64.4
800	100.8	101.1	102.7	102.7	101.5	100.0	102.9	104.3	105.9	104.9	101.3	105.4	109.5	110.4	112.2	113.5	108.1	82.9	61.7
1000	98.1	98.3	100.0	100.0	98.7	97.3	100.1	101.4	103.0	102.0	98.5	102.6	106.9	107.8	109.7	111.0	105.5	80.2	58.9
1250	95.2	95.5	97.0	97.1	95.7	94.3	97.2	98.4	100.0	99.0	95.5	99.6	104.2	104.9	107.0	108.2	102.8	77.4	55.8
1600	92.3	92.5	93.9	94.0	92.6	91.2	94.1	95.2	96.8	95.7	92.3	96.4	101.3	102.0	104.2	105.4	100.0	74.5	52.3
2000	89.1	89.4	90.7	90.8	89.3	87.9	90.7	91.7	93.3	92.2	88.9	93.1	98.2	98.9	101.1	102.3	96.9	71.4	48.7
2500	85.7	86.0	87.3	87.3	85.6	84.3	87.1	87.8	89.5	88.4	85.1	89.3	94.4	95.6	97.4	98.5	93.1	67.6	44.3
3150	82.0	82.3	83.6	83.5	81.7	80.3	83.1	83.6	85.3	84.1	81.1	85.3	90.3	91.6	93.6	94.5	88.9	63.5	39.3
4000	77.9	78.3	79.6	79.3	77.5	75.8	78.7	78.9	80.6	79.4	76.6	81.0	85.9	87.2	89.3	90.1	84.4	59.0	33.9
5000	73.5	73.9	75.2	74.8	72.8	70.9	73.9	73.6	75.4	74.3	71.8	76.4	81.2	82.5	84.7	85.4	79.7	53.7	26.0
6300	68.8	69.2	70.5	69.8	67.8	65.5	68.5	67.9	69.6	68.8	66.7	71.4	76.2	77.6	79.8	80.5	74.8	48.2	15.0
8000	64.1	64.6	65.9	64.8	62.7	60.1	63.0	62.2	64.0	63.8	62.6	67.0	72.3	73.8	75.9	76.6	71.0	43.0	4.1
10000	58.9	59.4	60.7	59.5	57.0	54.1	56.6	56.0	59.1	59.0	58.1	62.5	68.2	69.7	71.7	72.5	66.9	37.2	
12500	53.0	53.5	54.8	54.1	51.4	48.0	50.7	50.1	53.7	53.6	53.1	57.7	63.6	65.2	67.1	68.0	62.4	31.2	
16000	46.9	47.3	48.8	48.0	44.9	41.2	43.8	43.1	47.5	47.5	47.6	52.3	58.6	60.2	61.9	63.1	57.4	23.3	
20000	39.5	40.4	41.5	40.4	37.4	33.7	35.7	35.4	40.1	39.8	41.0	46.3	52.9	54.7	56.5	57.7	51.9	12.1	
25000	30.9	32.2	33.3	31.9	29.0	23.0	26.3	26.3	31.4	31.4	33.4	38.9	46.5	48.4	50.3	51.6	45.5	.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
MIL PWR, 100% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 03
AIRCRAFT CODE 509
OPERATION CODE 02004
PROFILE VERSION A
13 APR 76
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	115.2	116.4	117.9	117.0	116.1	114.4	117.2	118.8	120.3	120.0	115.8	119.9	123.3	124.0	125.7	127.2	121.6	97.4	76.5
250	113.0	114.2	115.8	114.8	113.8	112.2	115.0	116.6	118.1	117.7	113.5	117.6	121.1	121.9	123.6	125.0	119.5	95.1	74.3
315	110.7	111.9	113.5	112.5	111.6	109.9	112.7	114.3	115.8	115.3	111.2	115.4	118.9	119.7	121.5	122.9	117.3	92.8	71.9
400	108.4	109.6	111.2	110.2	109.2	107.6	110.4	111.9	113.5	112.9	108.9	113.0	116.7	117.5	119.3	120.6	115.1	90.5	69.5
500	105.9	107.3	108.8	107.8	106.8	105.2	108.0	109.5	111.1	110.4	106.5	110.6	114.4	115.2	117.0	118.4	112.9	88.0	67.0
630	103.4	104.8	106.3	105.3	104.2	102.7	105.5	106.9	108.5	107.7	103.9	108.1	112.0	112.9	114.7	116.0	110.5	85.4	64.4
800	100.8	102.2	103.8	102.7	101.5	100.0	102.9	104.3	105.9	104.9	101.3	105.4	109.5	110.4	112.2	113.5	108.1	82.9	61.7
1000	98.1	99.5	101.0	100.0	98.7	97.3	100.1	101.4	103.0	102.0	98.5	102.6	106.9	107.8	109.7	111.0	105.5	80.2	58.9
1250	95.2	96.6	98.1	97.1	95.7	94.3	97.2	98.4	100.0	99.0	95.5	99.6	104.2	104.9	107.0	108.2	102.8	77.4	55.8
1600	92.3	93.6	95.0	94.0	92.6	91.2	94.1	95.2	96.8	95.7	92.3	96.4	101.3	102.0	104.2	105.4	100.0	74.5	52.3
2000	89.1	90.5	91.8	90.8	89.3	87.9	90.7	91.7	93.3	92.2	88.9	93.1	98.2	98.9	101.1	102.3	96.9	71.4	48.7
2500	85.7	87.1	88.4	87.3	85.6	84.3	87.1	87.8	89.5	88.4	85.1	89.3	94.4	95.6	97.4	98.5	93.1	67.6	44.3
3150	82.0	83.5	84.7	83.5	81.7	80.3	83.1	83.6	85.3	84.1	81.1	85.3	90.3	91.6	93.6	94.5	88.9	63.5	39.3
4000	77.9	79.2	80.4	79.3	77.5	75.8	78.7	78.9	80.6	79.4	76.6	81.0	85.9	87.2	89.3	90.1	84.4	59.0	33.9
5000	73.5	74.6	75.9	74.8	72.8	70.9	73.9	73.6	75.4	74.3	71.8	76.4	81.2	82.5	84.7	85.4	79.7	53.7	26.0
6300	68.6	69.7	71.0	69.8	67.8	65.5	68.5	67.9	69.6	68.8	66.7	71.4	76.2	77.6	79.8	80.5	74.8	48.2	15.0
8000	64.1	64.8	66.1	64.8	62.7	60.1	63.0	62.2	64.0	63.8	62.6	67.0	72.3	73.8	75.9	76.6	71.0	43.0	4.1
10000	58.9	59.4	60.7	59.5	57.0	54.1	56.8	56.0	59.1	59.0	58.1	62.5	68.2	69.7	71.7	72.5	66.9	37.2	
12500	53.0	53.5	54.8	54.1	51.4	48.0	50.7	50.1	53.7	53.6	53.1	57.7	63.6	65.2	67.1	68.0	62.4	31.2	
16000	46.9	47.3	48.8	48.0	44.9	41.2	43.8	43.1	47.5	47.5	47.6	52.3	58.6	60.2	61.9	63.1	57.4	23.3	
20000	39.5	40.4	41.5	40.4	37.4	33.7	35.7	35.4	40.1	39.8	41.0	46.3	52.3	54.7	56.5	57.7	51.9	12.1	
25000	30.9	32.2	33.3	31.9	29.0	23.0	26.3	26.3	31.4	31.4	33.4	38.9	46.5	48.4	50.3	51.6	45.5	.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (D9A)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 03
AIRCRAFT CODE 509
OPERATION CODE 02004
PROFILE VERSION A
13 APR 76
PAGE F3

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
MIL PWR, 100% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5C LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	104.1	104.4	106.0	105.8	104.0	101.8	104.7	105.6	106.9	106.2	102.5	106.8	110.7	111.5	113.2	114.5	108.7	84.3	64.3
250	101.9	102.3	103.9	103.7	101.9	99.6	102.5	103.4	104.7	104.0	100.3	104.6	108.6	109.4	111.1	112.4	106.6	82.3	62.3
315	99.8	100.2	101.8	101.6	99.7	97.4	100.3	101.1	102.5	101.8	98.2	102.5	106.5	107.3	109.0	110.3	104.5	80.1	60.1
400	97.6	98.0	99.6	99.4	97.5	95.2	98.1	98.8	100.2	99.5	96.0	100.3	104.3	105.2	106.9	108.1	102.4	78.0	58.0
500	95.4	95.8	97.4	97.1	95.2	92.9	95.8	96.4	97.8	97.1	93.7	98.1	102.1	103.0	104.7	106.0	100.2	75.8	55.8
630	93.1	93.6	95.1	94.8	92.9	90.6	93.4	94.0	95.4	94.7	91.4	95.7	99.9	100.8	102.5	103.7	98.0	73.6	53.6
800	90.8	91.3	92.8	92.5	90.5	88.1	91.0	91.4	92.9	92.1	89.0	93.4	97.6	98.5	100.2	101.4	95.7	71.3	51.3
1000	88.4	88.9	90.4	90.0	88.0	85.6	88.4	88.7	90.3	89.5	86.6	90.9	95.2	96.2	97.9	99.1	93.4	68.9	48.9
1250	85.9	86.4	87.9	87.5	85.4	83.0	85.8	86.0	87.5	86.8	84.0	88.4	92.8	93.7	95.5	96.6	90.9	66.4	46.4
1600	83.4	83.8	85.3	84.9	82.7	80.2	83.0	83.0	84.7	84.0	81.3	85.8	90.2	91.2	93.0	94.1	88.4	63.9	43.9
2000	80.7	81.1	82.6	82.1	79.9	77.3	80.1	79.9	81.7	81.0	78.5	83.0	87.6	88.5	90.4	91.4	85.8	61.2	41.2
2500	77.8	78.2	79.6	79.2	76.9	74.2	76.9	76.5	78.4	77.8	75.5	80.0	84.7	85.6	87.5	88.5	82.7	58.3	38.3
3150	74.7	75.1	76.5	76.0	73.6	70.8	73.5	72.9	74.9	74.4	72.2	76.8	81.4	82.4	84.3	85.2	79.4	55.1	35.1
4000	71.3	71.6	73.0	72.5	69.9	67.0	69.8	69.0	71.1	70.7	68.5	73.2	77.7	78.8	80.7	81.6	75.6	51.5	31.5
5000	67.4	67.7	69.1	68.5	65.9	62.9	65.6	64.6	66.8	66.5	64.4	69.1	73.6	74.7	76.6	77.5	71.4	47.5	27.5
6300	63.2	63.4	64.9	64.2	61.5	58.3	61.0	59.8	62.2	62.0	60.0	64.7	69.2	70.3	72.3	73.1	67.0	43.1	23.1
8000	59.0	59.1	60.5	59.8	57.0	53.7	56.3	55.1	57.8	57.6	56.0	60.7	65.4	66.6	68.5	69.3	63.3	39.3	19.3
10000	54.3	54.4	55.7	54.9	52.1	48.7	51.2	50.0	53.0	52.9	51.7	56.4	61.4	62.5	64.4	65.1	59.3	35.1	15.1
12500	49.1	49.2	50.5	49.6	46.8	43.3	45.7	44.6	48.0	47.9	47.0	51.7	56.9	58.0	59.9	60.6	54.9	30.5	10.5
16000	43.3	43.4	44.6	43.8	41.0	37.6	39.8	39.0	42.5	42.4	42.0	46.5	52.0	53.1	54.9	55.6	50.2	25.4	5.4
20000	37.0	37.2	38.3	37.4	34.7	31.5	33.5	33.0	36.6	36.5	36.5	40.9	46.6	47.7	49.5	50.2	45.0	20.0	
25000	30.0	30.5	31.4	30.5	28.0	25.1	26.8	26.5	30.1	30.1	30.5	34.7	40.7	41.8	43.6	44.3	39.3	14.1	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 03
AIRCRAFT CODE 509
OPERATION CODE 02004
PROFILE VERSION A
13 APR 76
PAGE 63

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
MIL PWR, 100% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 73 %
DELTA T = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	104.1	105.6	107.1	105.8	104.0	101.8	104.7	105.6	106.9	106.2	102.5	106.8	110.7	111.5	113.2	114.5	108.7	84.3	64.3
250	101.9	103.5	105.0	103.7	101.9	99.6	102.5	103.4	104.7	104.0	100.3	104.6	108.6	109.4	111.1	112.4	106.6	82.3	62.3
315	99.8	101.3	102.8	101.6	99.7	97.4	100.3	101.1	102.5	101.8	98.2	102.5	106.5	107.3	109.0	110.3	104.5	80.1	60.1
400	97.6	99.2	100.6	99.4	97.5	95.2	98.1	98.8	100.2	99.5	96.0	100.3	104.3	105.2	106.9	108.1	102.4	78.0	58.0
500	95.4	97.0	98.4	97.1	95.2	92.9	95.8	96.4	97.8	97.1	93.7	98.0	102.1	103.0	104.7	106.0	100.2	75.8	55.8
630	93.1	94.7	96.2	94.8	92.9	90.6	93.4	94.0	95.4	94.7	91.4	95.7	99.9	100.8	102.5	103.7	98.0	73.6	53.6
800	90.8	92.4	93.8	92.5	90.5	88.1	91.0	91.4	92.9	92.1	89.0	93.4	97.6	98.5	100.2	101.4	95.7	71.3	51.3
1000	88.4	90.0	91.4	90.0	88.0	85.6	88.4	88.7	90.3	89.5	86.6	90.9	95.2	96.2	97.9	99.1	93.4	68.9	48.9
1250	85.9	87.5	88.9	87.5	85.4	83.0	85.8	86.0	87.5	86.8	84.0	88.4	92.8	93.7	95.5	96.6	90.9	66.4	46.4
1600	83.4	85.0	86.3	84.9	82.7	80.2	83.0	83.0	84.7	84.0	81.3	85.8	90.2	91.2	93.0	94.1	88.4	63.9	43.9
2000	80.7	82.3	83.6	82.1	79.9	77.3	80.1	79.9	81.7	81.0	78.5	83.0	87.6	88.5	90.4	91.4	85.8	61.2	41.2
2500	77.8	79.3	80.7	79.2	76.9	74.2	76.9	76.5	78.4	77.8	75.5	80.0	84.7	85.6	87.5	88.5	82.7	58.3	38.3
3150	74.7	76.2	77.5	76.0	73.6	70.8	73.5	72.9	74.9	74.4	72.2	76.8	81.4	82.4	84.3	85.2	79.4	55.1	35.1
4000	71.3	72.5	73.9	72.5	69.9	67.0	69.8	69.0	71.1	70.7	68.5	73.2	77.7	78.8	80.7	81.6	75.6	51.5	31.5
5000	67.4	68.4	69.8	68.5	65.9	62.9	65.6	64.6	66.8	66.5	64.4	69.1	73.6	74.7	76.6	77.5	71.4	47.5	27.5
6300	63.2	63.9	65.3	64.2	61.5	58.3	61.0	59.8	62.2	62.0	60.0	64.7	69.2	70.3	72.3	73.1	67.0	43.1	23.1
8000	59.0	59.4	60.7	59.8	57.0	53.7	56.3	55.1	57.8	57.6	56.0	60.7	65.4	66.6	68.5	69.3	63.3	39.3	19.3
10000	54.3	54.4	55.7	54.9	52.1	48.7	51.2	50.0	53.0	52.9	51.7	56.4	61.4	62.5	64.4	65.1	59.3	35.1	15.1
12500	49.1	49.2	50.5	49.6	46.8	43.3	45.7	44.6	48.0	47.9	47.0	51.7	56.9	58.0	59.9	60.6	54.9	30.5	10.5
16000	43.3	43.4	44.6	43.8	41.0	37.6	39.8	39.0	42.5	42.4	42.0	46.5	52.0	53.1	54.9	55.6	50.2	25.4	5.4
20000	37.0	37.2	38.3	37.4	34.7	31.5	33.5	33.0	36.6	36.5	36.5	40.9	46.6	47.7	49.5	50.2	45.0	20.0	
25000	30.0	30.5	31.4	30.5	28.0	25.1	26.8	26.5	30.1	30.1	30.5	34.7	40.7	41.8	43.6	44.3	39.3	14.1	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

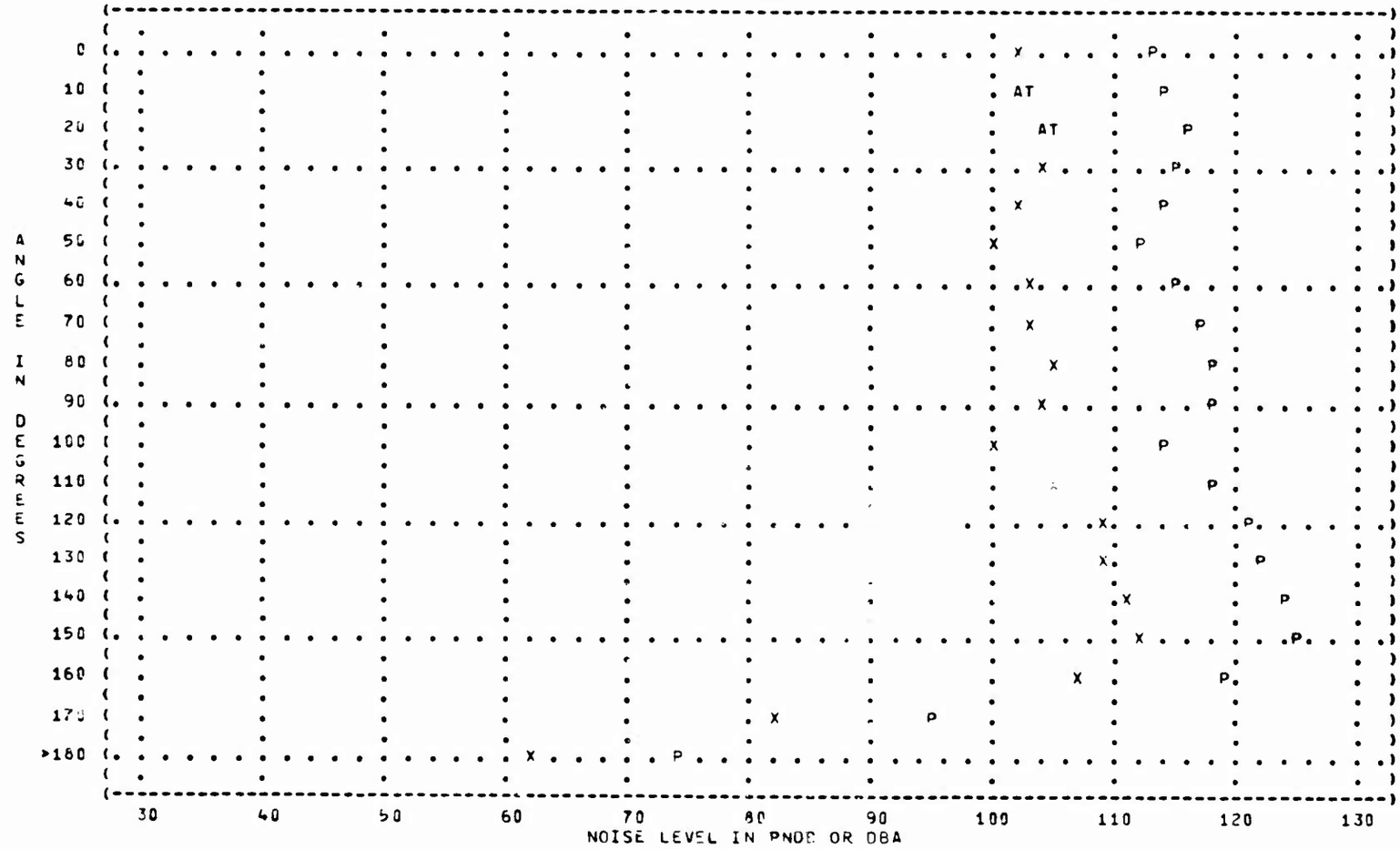
NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
MIL PWR, 100% RPM, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 03
AIRCRAFT CODE 509
OPERATION CODE 02004
PROFILE VERSION A
13 APR 76
PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 04

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
AFTERBURNER POWER, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

AIRCRAFT CODE 509
OPERATION CODE 02003
PROFILE VERSION A
13 APR 76
PAGE C4

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	84	84	84	84	85	85	85	86	87	88	89	95	102	106	107	106	101	83	63
63	86	85	86	86	87	86	87	89	89	91	92	97	104	108	109	106	101	80	60
80	89	88	87	88	89	89	89	91	90	91	95	100	107	111	110	108	101	80	60
100	90	89	89	90	91	90	91	93	92	93	96	104	111	115	113	111	103	91	61
125	92	92	91	92	92	94	93	94	95	96	99	104	113	117	116	113	105	82	62
160	92	92	93	92	91	93	93	94	95	97	101	104	112	117	116	114	105	87	67
200	92	92	92	91	91	92	93	94	94	96	101	107	111	114	114	113	104	79	59
250	94	94	94	93	93	93	94	94	95	96	101	108	113	112	113	112	103	80	60
315	94	95	94	94	94	92	94	95	97	97	102	107	114	114	112	110	101	79	59
400	93	96	97	95	94	91	93	94	96	97	101	107	112	112	112	108	100	78	58
500	93	95	96	94	93	90	92	94	96	97	100	105	111	110	110	106	98	78	58
630	95	95	96	96	93	90	93	95	97	97	100	104	110	109	108	104	96	78	58
800	93	94	94	95	92	90	93	95	96	97	98	102	108	106	106	102	95	75	55
1000	91	93	95	94	92	90	93	94	96	97	96	101	106	105	105	101	93	73	53
1250	92	93	95	94	94	90	93	94	95	97	95	100	106	104	103	99	93	71	51
1600	93	94	94	95	95	92	95	96	96	97	95	99	105	102	103	98	92	72	52
2000	92	93	94	94	94	91	97	97	98	98	95	97	104	100	101	97	90	69	49
2500	89	88	90	91	91	88	94	97	97	96	94	95	103	98	100	96	88	70	50
3150	87	86	88	89	89	86	92	94	96	94	92	93	102	96	98	93	85	68	48
4000	87	87	88	90	89	87	93	95	96	96	91	92	103	95	97	92	83	68	48
5000	83	82	84	85	86	83	90	93	93	93	88	90	102	94	96	90	79	65	45
6300	82	80	82	83	83	81	88	90	91	91	86	87	100	90	94	87	75	60	40
8000	79	77	79	80	80	78	86	88	89	91	85	87	100	91	93	86	74	55	35
10000	75	74	76	77	78	75	83	87	87	89	85	85	101	91	94	87	71	51	31
OVERALL	105	105	106	106	105	104	106	108	109	109	111	116	123	125	124	121	113	92	72

> SPL DATA HERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
AFTERBURNER POWER, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 04
AIRCRAFT CODE 509
OPERATION CODE 02003
PROFILE VERSION A
13 APR 76
PAGE 04

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	117.3	117.8	118.8	119.0	118.5	116.1	120.7	122.5	123.2	123.5	122.4	126.1	133.5	132.0	131.8	128.6	120.3	100.4	79.5
250	115.1	115.6	116.6	116.8	116.3	113.9	118.5	120.3	120.9	121.2	120.2	123.9	131.2	129.9	129.7	126.5	118.2	98.3	77.3
315	112.8	113.4	114.4	114.5	114.1	111.7	116.3	118.0	118.6	118.9	117.9	121.8	128.9	127.8	127.5	124.4	116.1	96.1	74.9
400	110.5	111.1	112.1	112.2	111.7	109.4	113.9	115.6	116.3	116.4	115.6	119.6	126.7	125.6	125.3	122.1	113.9	93.8	72.5
500	108.1	108.8	109.7	109.8	109.4	107.0	111.5	113.2	113.8	113.8	113.2	117.3	124.4	123.3	123.0	119.8	111.6	91.3	70.0
630	105.6	106.3	107.2	107.3	106.9	104.5	109.0	110.6	111.2	111.3	110.7	114.9	121.9	121.0	120.6	117.4	109.2	88.8	67.3
800	103.0	103.7	104.6	104.7	104.2	101.8	106.3	107.8	108.5	108.6	108.0	112.5	119.4	118.6	118.2	114.9	106.7	86.0	64.5
1000	100.3	101.0	101.9	102.0	101.5	99.1	103.5	105.0	105.6	105.8	105.2	109.9	116.8	116.0	115.6	112.4	104.1	83.1	61.7
1250	97.3	98.0	99.0	99.0	98.5	96.1	100.5	101.8	102.6	102.8	102.4	107.2	113.8	113.1	112.9	109.4	101.3	80.0	58.7
1600	94.2	94.9	95.8	95.8	95.3	92.8	97.2	98.5	99.3	99.5	99.5	104.3	110.7	110.3	110.0	106.4	98.4	77.0	55.3
2000	90.9	91.5	92.4	92.5	91.9	89.4	93.7	94.9	95.8	96.0	96.4	101.3	107.6	107.2	106.9	103.3	95.3	73.8	51.8
2500	87.2	87.9	88.7	88.9	88.2	85.7	89.9	91.1	92.0	92.2	92.5	97.5	103.8	103.4	103.1	99.4	91.4	70.0	47.2
3150	83.2	83.9	84.7	84.9	84.2	81.6	85.6	86.8	87.7	88.0	88.6	93.3	99.8	99.2	98.9	95.1	87.1	66.0	42.5
4000	78.9	79.5	80.3	80.5	79.7	77.1	80.9	82.1	83.0	83.3	84.2	88.7	95.3	94.7	94.3	90.5	82.4	61.5	36.4
5000	74.1	74.8	75.6	75.6	74.8	72.1	75.7	76.8	77.8	78.3	79.5	84.0	90.5	89.9	89.5	85.6	77.7	56.3	29.3
6300	69.0	69.8	70.5	70.6	69.4	66.7	70.2	71.1	72.3	73.2	74.5	79.1	85.5	85.0	84.6	80.7	72.7	50.9	19.7
8000	64.8	65.6	66.3	66.3	64.5	61.9	64.9	66.3	67.8	68.7	70.4	75.2	81.7	81.3	80.8	76.9	68.9	46.2	11.2
10000	60.2	61.0	61.6	61.6	59.8	57.1	60.0	61.5	63.1	63.9	65.9	71.1	77.5	77.3	76.9	73.0	64.8	40.3	2.7
12500	55.1	55.9	56.7	56.5	54.8	51.8	54.7	56.2	57.9	58.8	61.2	66.6	73.1	73.1	72.6	68.7	60.3	34.4	
16000	49.2	50.6	51.3	50.7	49.1	45.7	48.7	50.3	52.4	53.2	56.1	61.7	68.3	68.5	67.9	64.1	55.3	27.3	
20000	42.3	44.2	44.8	43.7	42.5	39.0	41.6	43.4	45.9	47.0	50.2	56.2	63.0	63.4	62.8	59.0	49.7	17.1	
25000	34.2	36.5	37.2	35.4	33.9	30.5	33.5	35.8	38.6	39.5	43.3	50.0	57.0	57.7	57.1	53.2	42.9	6.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
AFTERBURNER POWER, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 04
AIRCRAFT CODE 509
OPERATION CODE 02003
PROFILE VERSION A
13 APR 76
PAGE E4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	117.3	117.8	118.8	119.0	118.5	116.1	120.7	122.5	123.2	123.5	122.4	126.1	133.5	132.0	131.8	128.6	120.3	101.5	80.5
250	115.1	115.6	116.6	116.8	116.3	113.9	118.5	120.3	120.9	121.2	120.2	123.9	131.2	129.9	129.7	126.5	118.2	99.3	78.3
315	112.8	113.4	114.4	114.5	114.1	111.7	116.3	118.0	118.6	118.9	117.9	121.8	128.9	127.8	127.5	124.4	116.1	97.1	76.0
400	110.5	111.1	112.1	112.2	111.7	109.4	113.9	115.6	116.3	116.4	115.6	119.6	126.7	125.6	125.3	122.1	113.9	94.8	73.6
500	108.1	108.8	109.7	109.8	109.4	107.3	111.5	113.2	113.8	113.8	113.2	117.3	124.4	123.3	123.0	119.8	111.6	92.4	71.0
630	105.6	106.3	107.2	107.3	106.9	104.5	109.0	110.6	111.2	111.3	110.7	114.9	121.9	121.0	120.6	117.4	109.2	89.8	68.3
800	103.0	103.7	104.6	104.7	104.2	101.8	106.3	107.8	108.5	108.6	108.0	112.5	119.4	118.6	118.2	114.9	106.7	87.0	65.5
1000	100.3	101.0	101.9	102.0	101.5	99.1	103.5	105.0	105.6	105.8	105.2	109.9	116.8	116.0	115.6	112.4	104.1	84.1	62.7
1250	97.3	98.0	99.0	99.0	98.5	96.1	100.5	101.8	102.6	102.8	102.4	107.2	113.8	113.1	112.9	109.4	101.3	81.0	59.7
1600	94.2	94.9	95.8	95.8	95.3	92.8	97.2	98.5	99.3	99.5	99.5	104.3	110.7	110.3	110.0	106.4	98.4	78.0	56.4
2000	90.9	91.5	92.4	92.5	91.9	89.4	93.7	94.9	95.8	96.0	96.4	101.3	107.6	107.2	106.9	103.3	95.3	74.9	52.8
2500	87.2	87.9	88.7	88.9	88.2	85.7	89.9	91.1	92.0	92.2	92.5	97.5	103.8	103.4	103.1	99.4	91.4	71.0	48.3
3150	83.2	83.9	84.7	84.9	84.2	81.6	85.6	86.8	87.7	88.0	88.6	93.3	99.8	99.2	98.9	95.1	87.1	67.0	43.5
4000	78.9	79.5	80.3	80.5	79.7	77.1	80.9	82.1	83.0	83.3	84.2	88.7	95.3	94.7	94.3	90.5	82.4	62.3	37.2
5000	74.1	74.8	75.6	75.6	74.8	72.1	75.7	76.8	77.8	78.3	79.5	84.0	90.5	89.9	89.5	85.6	77.7	56.9	29.9
6300	69.0	69.8	70.5	70.6	69.4	66.7	70.2	71.1	72.3	73.2	74.5	79.1	85.5	85.0	84.6	80.7	72.7	51.3	20.1
8000	64.8	65.6	66.3	66.3	64.5	61.9	64.9	66.3	67.8	68.7	70.4	75.2	81.7	81.3	80.8	76.9	68.9	46.4	11.4
10000	60.2	61.0	61.6	61.6	59.8	57.1	60.0	61.5	63.1	63.9	65.9	71.1	77.5	77.3	76.9	73.0	64.8	40.3	2.7
12500	55.1	55.9	56.7	56.5	54.8	51.8	54.7	56.2	57.9	58.8	61.2	66.6	73.1	73.1	72.6	68.7	60.3	34.4	
16000	49.2	50.6	51.3	50.7	49.1	45.7	48.7	50.3	52.4	53.2	56.1	61.7	68.3	68.5	67.9	64.1	55.3	27.3	
20000	42.3	44.2	44.8	43.7	42.5	39.0	41.6	43.4	45.9	47.0	50.2	56.2	63.0	63.4	62.8	59.0	49.7	17.1	
25000	34.2	36.5	37.2	35.4	33.9	30.5	33.5	35.8	38.6	39.5	43.3	50.0	57.0	57.7	57.1	53.2	42.9	6.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 04
AIRCRAFT CODE 509
OPERATION CODE 02003
PROFILE VERSION A
13 APR 76
PAGE F4

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
AFTERBURNER POWER, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	104.4	105.2	106.3	106.4	105.5	102.7	107.0	108.5	109.4	109.7	109.2	113.4	120.0	118.6	118.3	114.8	106.9	86.6	66.6
250	102.2	103.1	104.1	104.2	103.3	100.5	104.8	106.3	107.2	107.5	107.1	111.4	117.9	116.6	116.2	112.7	104.8	84.5	64.5
315	100.1	101.0	102.0	102.1	101.1	98.4	102.6	104.1	105.0	105.3	105.0	109.3	115.7	114.5	114.1	110.7	102.8	82.4	62.4
400	97.9	98.8	99.8	99.9	98.9	96.1	100.3	101.7	102.7	103.0	102.8	107.1	113.5	112.4	112.0	108.5	100.6	80.2	60.2
500	95.7	96.6	97.6	97.6	96.7	93.9	98.0	99.4	100.4	100.7	100.6	105.0	111.3	110.2	109.8	106.3	98.5	78.0	58.0
630	93.4	94.3	95.3	95.3	94.3	91.5	95.6	96.9	97.9	98.3	98.3	102.7	109.0	108.0	107.5	104.0	96.2	75.8	55.8
800	91.0	92.0	93.0	93.0	91.9	89.1	93.1	94.4	95.5	95.9	96.0	100.4	106.7	105.7	105.2	101.7	93.9	73.4	53.4
1000	88.6	89.6	90.6	90.5	89.4	86.6	90.5	91.8	92.9	93.3	93.6	98.1	104.3	103.3	102.8	99.3	91.4	71.0	51.0
1250	86.0	87.1	88.1	88.0	86.9	84.0	87.8	89.0	90.2	90.7	91.0	95.6	101.7	100.8	100.3	96.7	88.9	68.5	48.5
1600	83.4	84.5	85.5	85.4	84.2	81.3	85.0	86.2	87.4	88.0	88.4	93.0	99.1	98.2	97.7	94.0	86.2	65.8	45.8
2000	80.7	81.8	82.8	82.6	81.3	78.5	82.0	83.2	84.5	85.1	85.7	90.4	96.4	95.5	95.0	91.1	83.5	63.1	43.1
2500	77.7	78.8	79.8	79.6	78.3	75.4	79.8	80.0	81.3	82.0	82.7	87.4	93.3	92.4	91.9	88.0	80.4	60.1	40.1
3150	74.4	75.6	76.5	76.4	74.9	72.1	75.4	76.5	78.0	78.7	79.5	84.0	90.0	89.0	88.5	84.5	77.0	56.8	36.8
4000	70.8	71.9	72.9	72.8	71.2	68.4	71.7	72.8	74.3	75.1	75.8	80.3	86.3	85.2	84.7	80.6	73.2	53.2	33.2
5000	66.7	67.8	68.9	68.8	67.1	64.3	67.5	68.6	70.1	71.0	71.7	76.2	82.2	81.0	80.5	76.4	69.0	49.1	29.1
6300	62.3	63.4	64.5	64.4	62.6	59.9	62.9	64.0	65.7	66.6	67.3	71.8	77.8	76.6	76.1	72.0	64.6	44.7	24.7
8000	58.2	59.3	60.3	60.2	58.3	55.6	58.5	59.7	61.5	62.4	63.4	68.0	73.9	72.9	72.3	68.2	60.8	40.9	20.9
10000	53.8	54.9	55.8	55.7	53.7	51.1	53.8	55.1	56.9	57.8	59.1	63.8	69.8	68.9	68.3	64.2	56.7	36.8	16.8
12500	49.0	50.2	51.0	50.7	48.8	46.1	48.8	50.1	52.0	52.9	54.6	59.3	65.3	64.6	63.9	59.9	52.3	32.3	12.3
16000	43.8	45.0	45.7	45.4	43.5	40.8	43.3	44.7	46.6	47.5	49.6	54.4	60.4	59.9	59.2	55.3	47.5	27.5	7.5
20000	38.1	39.3	40.0	39.5	37.7	35.0	37.4	38.9	40.8	41.6	44.1	49.1	55.1	54.8	54.1	50.4	42.5	22.3	2.3
25000	31.8	33.1	33.7	33.0	31.5	28.9	31.1	32.6	34.5	35.3	38.1	43.3	49.3	49.4	48.6	45.3	37.2	16.7	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 04
AIRCRAFT CODE 509
OPERATION CODE 02003
PROFILE VERSION A
13 APR 76
PAGE 64

NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
AFTERBURNER POWER, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	104.4	105.2	106.3	106.4	105.5	102.7	107.0	108.5	109.4	109.7	109.2	113.4	120.0	118.6	118.3	114.8	106.9	87.6	67.6
250	102.2	103.1	104.1	104.2	103.3	100.5	104.8	106.3	107.2	107.5	107.1	111.4	117.9	116.6	116.2	112.7	104.8	85.5	65.5
315	100.1	101.0	102.0	102.1	101.1	98.4	102.0	104.1	105.0	105.3	105.0	109.3	115.7	114.5	114.1	110.7	102.8	83.4	63.4
400	97.9	98.8	99.8	99.9	98.9	96.1	100.3	101.7	102.7	103.0	102.8	107.1	113.5	112.4	112.0	108.5	100.6	81.3	61.3
500	95.7	96.6	97.6	97.6	96.7	93.9	98.0	99.4	100.4	100.7	100.6	105.0	111.3	110.2	109.8	106.3	98.5	79.1	59.1
630	93.4	94.3	95.3	95.3	94.3	91.5	95.6	96.9	97.9	98.3	98.3	102.7	109.0	108.0	107.5	104.0	96.2	76.8	56.8
800	91.0	92.0	93.0	93.0	91.9	89.1	93.1	94.4	95.5	95.9	96.0	100.4	106.7	105.7	105.2	101.7	93.9	74.4	54.4
1000	88.6	89.6	90.6	90.5	89.4	86.6	90.5	91.8	92.9	93.3	93.6	98.1	104.3	103.3	102.8	99.3	91.4	72.0	52.0
1250	86.0	87.1	88.1	88.0	86.9	84.0	87.8	89.0	90.2	90.7	91.0	95.6	101.7	100.8	100.3	96.7	88.9	69.5	49.5
1600	83.4	84.5	85.5	85.4	84.2	81.3	85.0	86.2	87.4	88.0	88.4	93.0	99.1	98.2	97.7	94.0	86.2	66.9	46.9
2000	80.7	81.8	82.8	82.6	81.3	78.5	82.0	83.2	84.5	85.1	85.7	90.4	96.4	95.5	95.0	91.1	83.5	64.1	44.1
2500	77.7	78.8	79.8	79.6	78.3	75.4	78.8	80.0	81.3	82.0	82.7	87.4	93.3	92.4	91.9	88.0	80.4	61.1	41.1
3150	74.4	75.6	76.5	76.4	74.9	72.1	75.4	76.5	78.0	78.7	79.5	84.9	90.0	89.0	88.5	84.5	77.0	57.9	37.9
4000	70.8	71.9	72.9	72.8	71.2	68.4	71.7	72.8	74.3	75.1	75.8	80.3	86.3	85.2	84.7	80.6	73.2	54.0	34.0
5000	66.7	67.8	68.9	68.8	67.1	64.3	67.5	68.6	70.1	71.0	71.7	76.2	82.2	81.0	80.5	76.4	69.0	49.7	29.7
6300	62.3	63.4	64.5	64.4	62.6	59.9	62.9	64.0	65.7	66.6	67.3	71.8	77.9	76.6	76.1	72.0	64.6	45.1	25.1
8000	58.2	59.3	60.3	60.2	58.3	55.6	58.5	59.7	61.5	62.4	63.4	68.0	73.9	72.9	72.3	68.2	60.8	41.1	21.1
10000	53.8	54.9	55.8	55.7	53.7	51.1	53.8	55.1	56.9	57.8	59.1	63.8	69.8	68.9	68.3	64.2	56.7	36.8	16.8
12500	49.0	50.2	51.0	50.7	48.8	46.1	48.8	50.1	52.0	52.9	54.6	59.3	65.3	64.6	63.9	59.9	52.3	32.3	12.3
16000	43.8	45.0	45.7	45.4	43.5	40.8	43.3	44.7	46.6	47.5	49.6	54.4	60.4	59.9	59.2	55.3	47.5	27.5	7.5
20000	38.1	39.3	40.0	39.5	37.7	35.0	37.4	38.9	40.8	41.6	44.1	49.1	55.1	54.8	54.1	50.4	42.5	22.3	2.3
25000	31.8	33.1	33.7	33.0	31.5	28.9	31.1	32.6	34.5	35.3	38.1	43.3	49.3	49.4	48.6	45.3	37.2	16.7	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

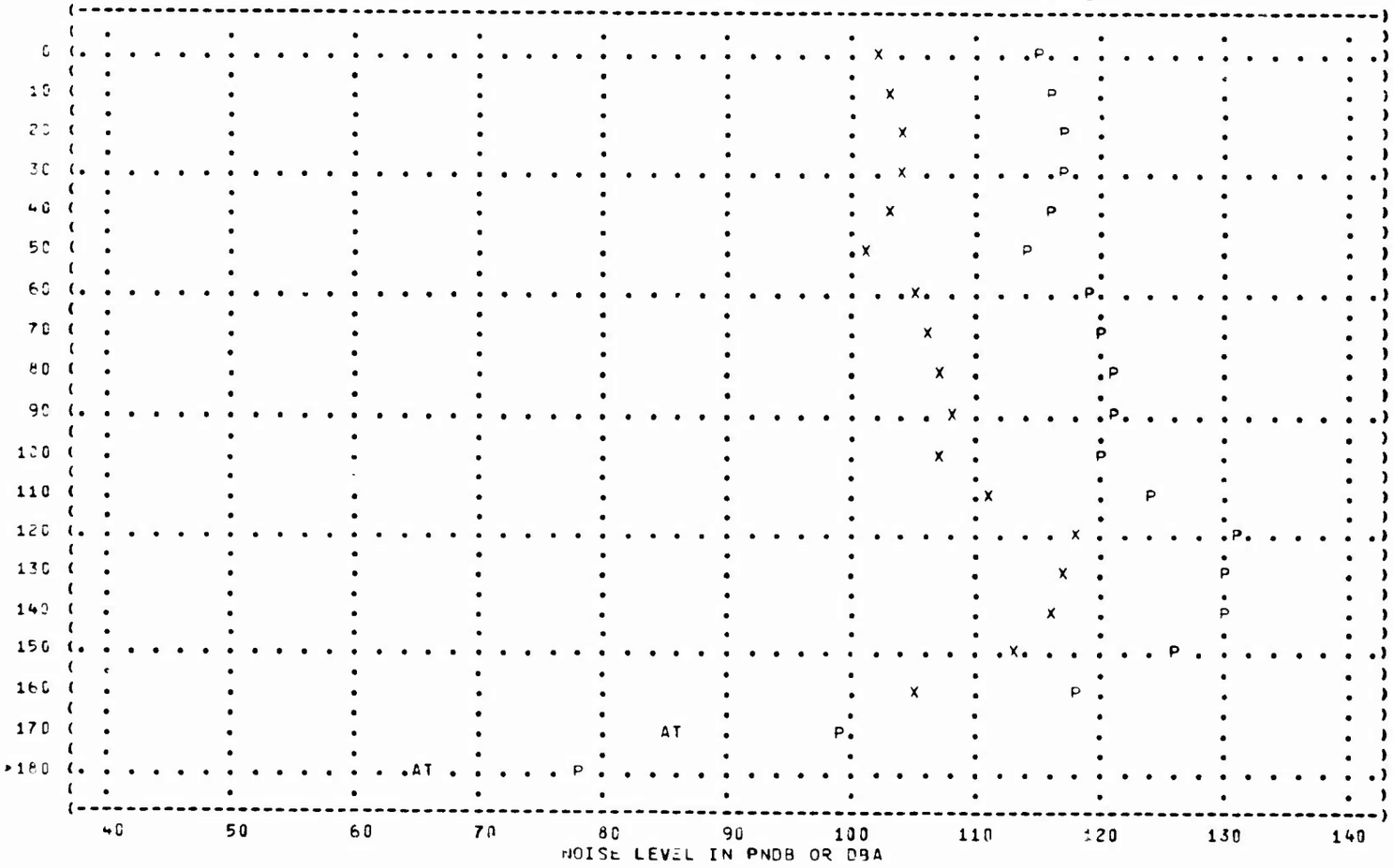
NOISE SOURCE/SUBJECT:
F-5A,B AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
AFTERBURNER POWER, F-5A,B
SINGLE ENGINE
ESTIMATED NOISE LEVELS
RE F-5E LEVELS -0.9 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-509-039
RUN 04
AIRCRAFT CODE 509
OPERATION CODE 02003
PROFILE VERSION A
13 APR 76
PAGE J4

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF F-5E AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

F-5E AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 046
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

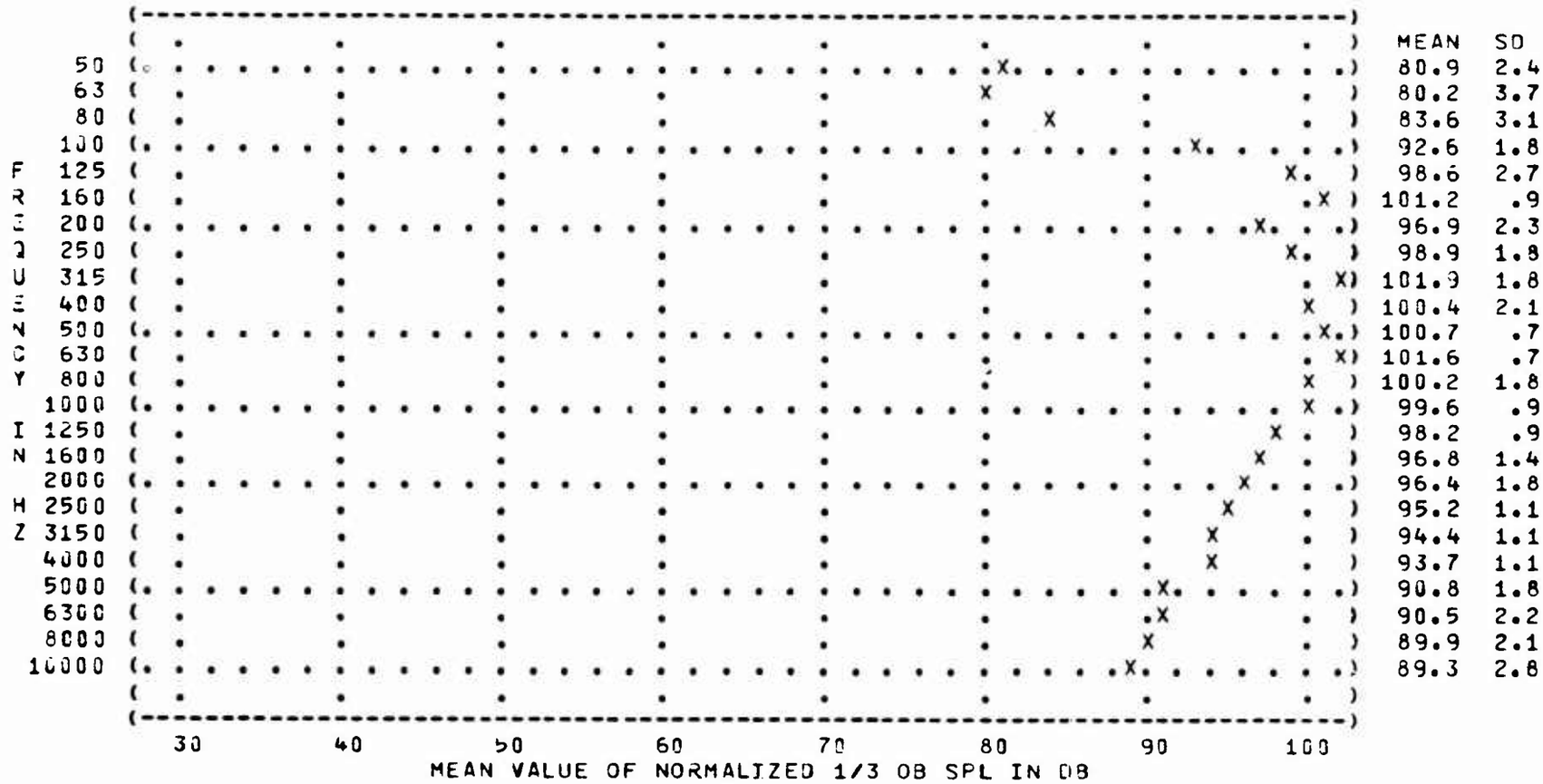
POWER SETTING	PAGE
AFTERBURNER 101% RPM	291-299
TAKEOFF 101% RPM	300-308
CRUISE 86% RPM	309-317
APPROACH 82% RPM	318-326

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
- AIR-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
- GROUND-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

23 JAN 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO



F-5E AFTERBURNER POWER 101 % RPM

AIRSPEED = 350 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-046-101-230176

PNLT = 121.9 PNDB
PNL = 121.3 PNDB
ALT = 109.4 DBA
AL = 108.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-5E

OPERATION:
AFTERBURNER POWER
101 % RPM
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 046
OPS CODE: 101
PROFILE VER: A
23 JAN 76
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	95	94	98	107	113	115	111	113	116	115	115	116	115	115	114	113	113	113	113	115	113	116	120	128
250	93	92	96	105	111	113	109	111	114	113	113	114	113	113	112	111	111	111	111	112	110	113	117	124
315	91	90	94	103	109	111	107	109	112	111	111	112	111	111	110	109	109	108	109	110	108	110	114	120
400	89	88	92	101	107	109	105	107	110	109	109	110	109	109	107	106	106	106	106	107	105	107	110	116
500	87	86	90	99	105	107	103	105	108	107	107	108	107	106	105	104	104	103	103	104	102	104	106	110
630	85	84	88	97	103	105	101	103	106	105	105	106	105	104	103	102	102	101	101	101	99	100	102	104
800	83	82	86	95	101	103	99	101	104	103	103	104	102	102	101	99	99	98	98	97	95	95	96	98
1000	81	80	84	93	99	101<	97	99	102	100	101	102	100	100	98	97	96	95	94	94	91	91	90	89
1250	79	78	82	91	97	99	95	97	100	98	99	99	98	97	96	94	93	92	91	89	86	85	82	79
1600	77	76	80	88	95	97	93	95	98	96	96	97	95	95	93	91	90	89	87	85	81	78	74	68
2000	75	74	77	86	92	95	91	92	95	94	94	95	93	92	90	88	87	85	82	79	75	70	63	53
2500	73	72	75	84	90	93	88	90	93	91	91	92	90	89	87	85	83	80	77	73	68	61	50	35
3150	71	70	73	82	88	91	86	88	91	89	89	89	87	86	84	81	79	75	71	65	59	50	35	14
4000	69	68	71	80	86	88	84	86	88	86	86	86	84	83	80	77	74	70	64	56	49	36	16	
5000	67	66	69	78	84	86	82	83	86	84	83	83	81	79	76	72	69	63	56	45	36	19		
6300	65	64	67	76	82	84	79	81	83	81	80	80	77	75	71	67	62	55	46	32	21			
8000	62	61	65	73	79	81	77	78	80	78	77	76	73	70	66	60	55	46	34	16	3			
10000	60	59	62	71	77	79	74	75	77	75	73	72	68	65	60	53	46	35	20					
12500	58	57	60	69	74	76	71	72	74	71	69	68	63	59	52	44	35	21	2					
16000	56	55	58	66	72	73	68	69	70	67	65	62	57	51	43	33	22	4						
20000	53	52	55	64	69	70	65	65	66	62	59	56	49	42	33	20	6							
25000	51	50	53	61	66	67	61	61	62	57	53	49	41	32	20	4								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-5E

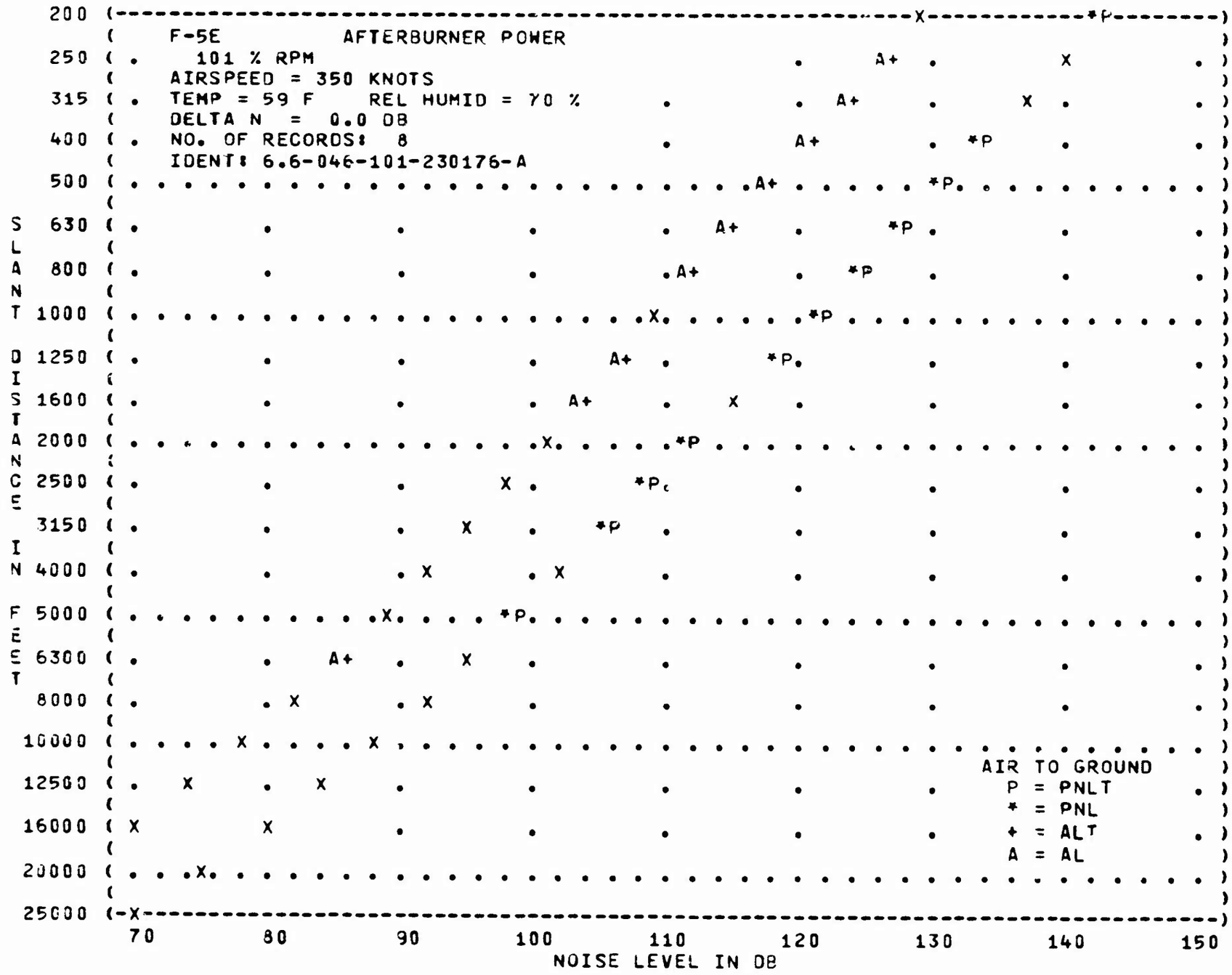
OPERATION: AFTERBURNER POWER, 101 % RPM, AIRSPEED = 350 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 046
OPS CODE: 101
PROFILE VEP: A
23 JAN 76

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	128.9	129.4	142.4	143.0	125.7	126.6	130.2
250	126.0	126.6	139.6	140.1	123.9	124.7	128.4
315	123.1	123.6	136.6	137.1	121.9	122.8	126.4
400	120.1	120.7	133.4	133.9	119.9	120.8	124.2
500	117.1	117.7	130.4	130.9	118.0	118.9	122.2
630	114.3	114.8	127.5	128.0	116.1	117.0	120.3
800	111.5	112.1	124.5	125.0	114.3	115.2	118.3
1000	108.8	109.4	121.3	121.9	112.7	113.5	116.2
1250	106.1	106.7	118.1	118.7	111.0	111.9	114.0
1600	103.4	104.0	114.8	115.4	109.3	110.2	111.6
2000	100.7	101.2	111.4	112.0	107.5	108.4	109.2
2500	97.8	98.4	108.2	108.8	105.7	106.6	107.0
3150	94.9	95.5	105.0	105.6	103.8	104.6	104.9
4000	91.9	92.3	101.8	102.2	101.7	102.4	102.5
5000	88.7	89.0	98.5	98.8	99.5	100.1	100.0
6300	85.3	85.6	95.1	95.3	97.2	97.5	97.4
8000	81.8	81.9	91.5	91.6	94.7	94.8	94.7
10000	78.1	78.1	87.8	87.8	91.9	91.9	91.8
12500	74.1	74.1	83.9	83.9	89.0	89.0	88.9
16000	70.0	70.0	79.7	79.7	85.8	85.8	85.6
20000	65.6	65.6	75.1	75.1	82.5	82.5	82.1
25000	61.0	61.0	70.5	70.5	78.9	78.9	78.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-5E AFTERBURNER POWER
101 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-046-101-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

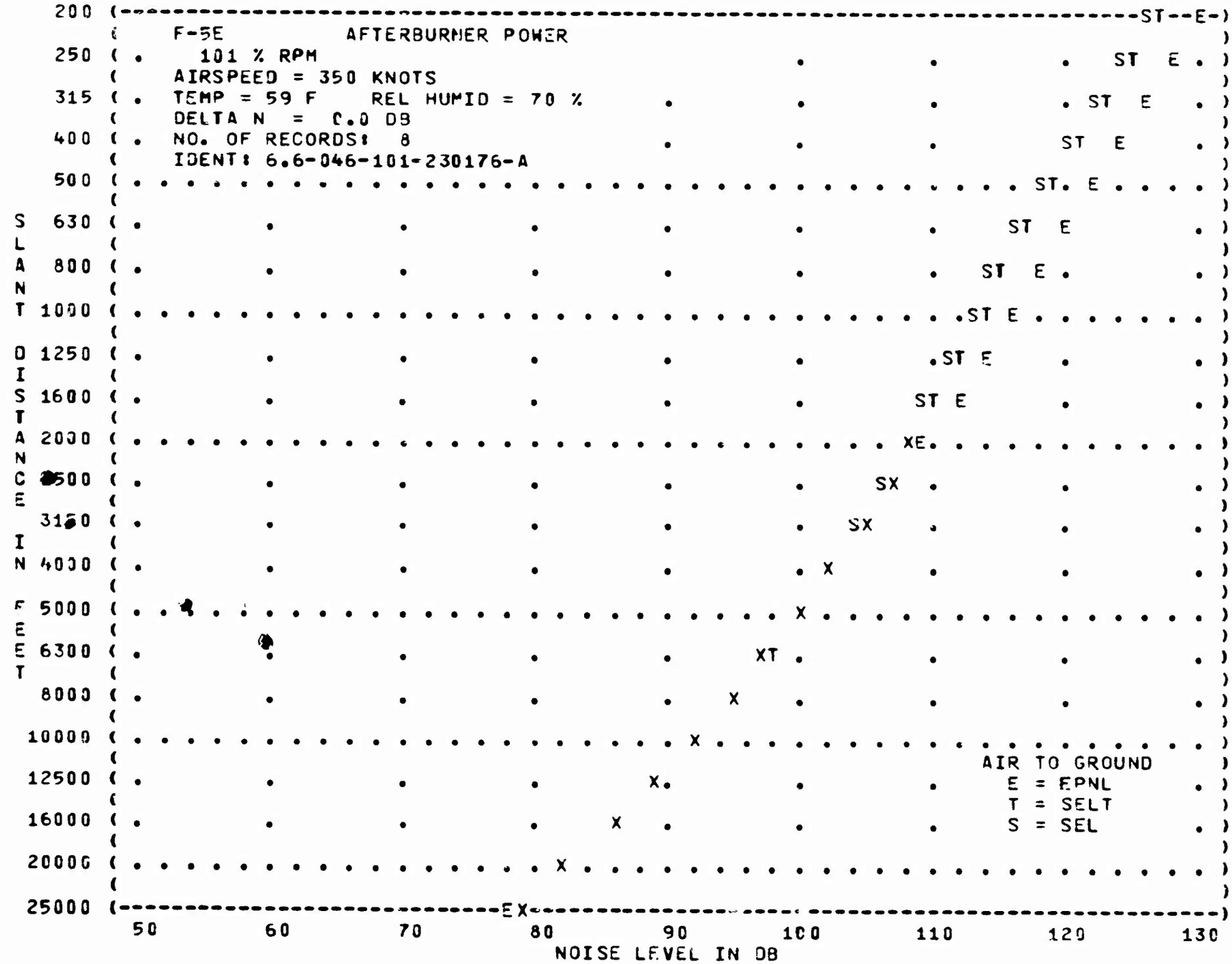

F-5E AFTERBURNER POWER
101 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-046-101-230176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

AIRCRAFT: F-5E

OPERATION: AFTERBURNER POWER, 101 % RPM, AIRSPEED = 350 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

IDENTIFICATION: OMEGA 6.6, A/C CODE: 046, OPS CODE: 101, PROFILE VER: A, 23 JAN 76, PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	90	89	93	102	108	110	106	108	111	110	110	111	110	110	109	108	108	108	108	110	108	111	115	123
250	88	87	91	100	106	108	104	106	109	108	108	109	108	108	107	106	106	106	106	107	105	108	112	119
315	86	85	89	98	104	106	102	104	107	106	106	107	106	106	105	104	104	103	104	105	103	105	109	115
400	84	83	87	96	102	104	100	102	105	104	104	105	104	104	102	101	101	101	101	102	100	102	105	111
500	82	81	85	94	100	102	97	100	103	102	102	103	102	101	100	99	99	98	98	99	97	99	101	105
630	80	79	83	92	97	99	95	97	101	100	100	101	100	99	98	97	97	96	96	96	94	95	97	99
800	78	77	81	89	94	96	92	95	99	98	98	99	97	97	96	94	94	93	93	92	90	90	91	93
1000	76	75	79	86	91	93<	89	92	97	95	96	97	95	95	93	92	91	90	89	89	86	86	85	84
1250	74	73	76	83	88	90	86	88	94	93	94	94	93	92	91	89	88	87	86	84	81	80	77	74
1600	72	70	72	80	85	87	83	85	90	91	91	92	90	90	88	86	85	84	82	80	76	73	69	63
2000	69	66	68	76	81	83	79	81	87	89	89	90	88	87	85	83	82	80	77	74	70	65	58	48
2500	65	62	64	72	77	79	74	77	83	85	86	87	85	84	82	80	78	75	72	68	63	56	45	30
3150	61	58	60	67	72	74	69	72	78	81	83	84	82	81	79	76	74	70	66	60	54	45	30	9
4000	57	53	54	61	66	68	64	66	73	76	79	81	79	78	75	72	69	65	59	51	44	31	11	
5000	52	48	50	56	61	63	59	61	67	71	75	77	76	74	71	67	64	58	51	40	31	14		
6300	47	44	45	52	57	58	54	56	61	65	70	72	71	70	66	62	57	50	41	27	16			
8000	44	41	43	49	54	56	51	53	58	62	67	68	67	65	61	55	50	41	29	11				
10000	42	39	40	47	52	53	49	50	55	59	63	64	62	60	55	48	41	30	15					
12500	40	37	38	45	49	51	46	47	52	55	59	60	57	54	47	39	30	16						
16000	38	35	36	42	47	48	43	44	48	51	55	54	51	46	38	28	17							
20000	35	32	33	40	44	45	39	40	44	46	49	48	43	37	28	15	1							
25000	33	30	31	37	41	41	36	36	40	41	43	41	35	27	15									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-5E

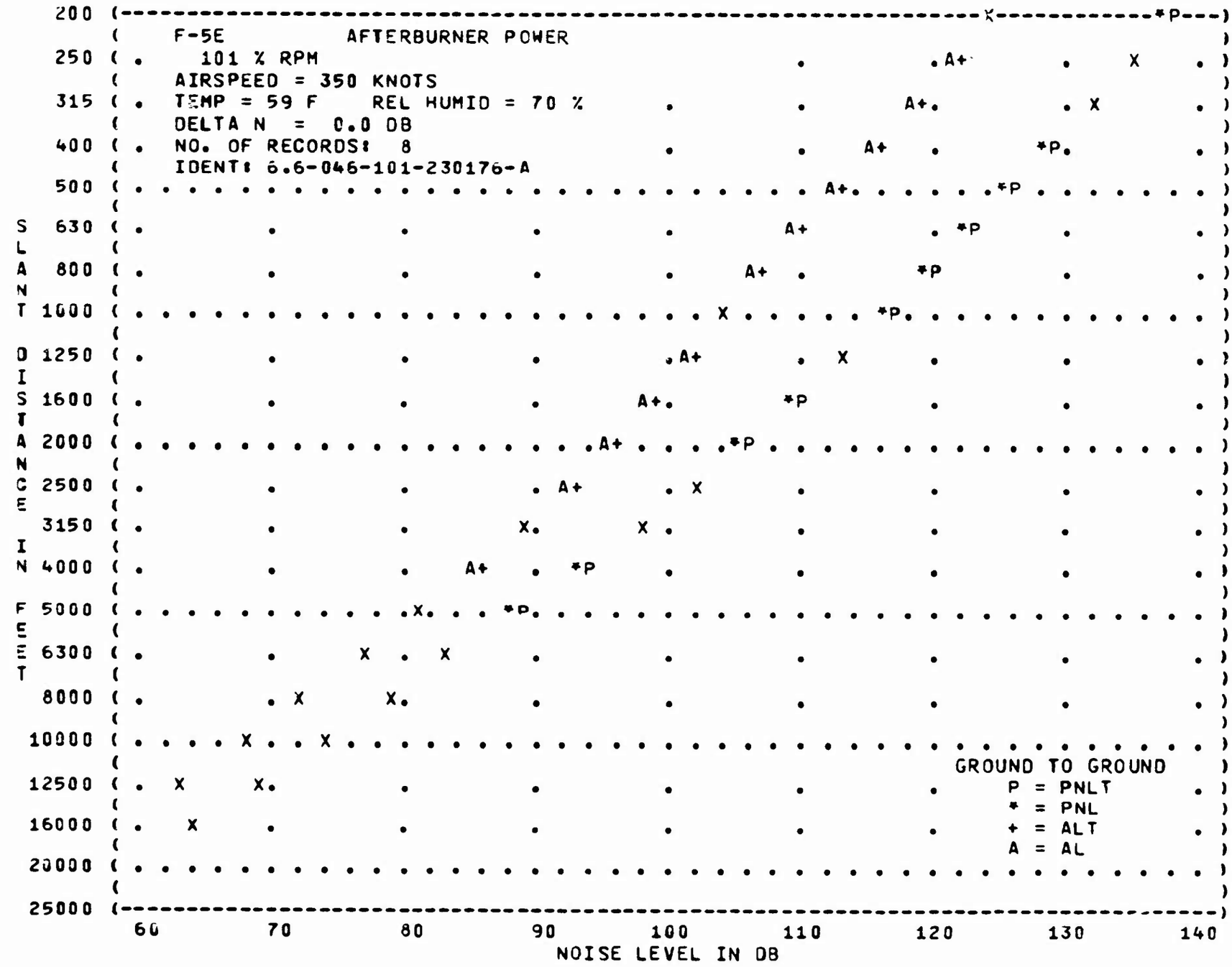
OPERATION:
AFTERBURNER POWER
101 % RPM
AIRSPEED = 350 KNOTS

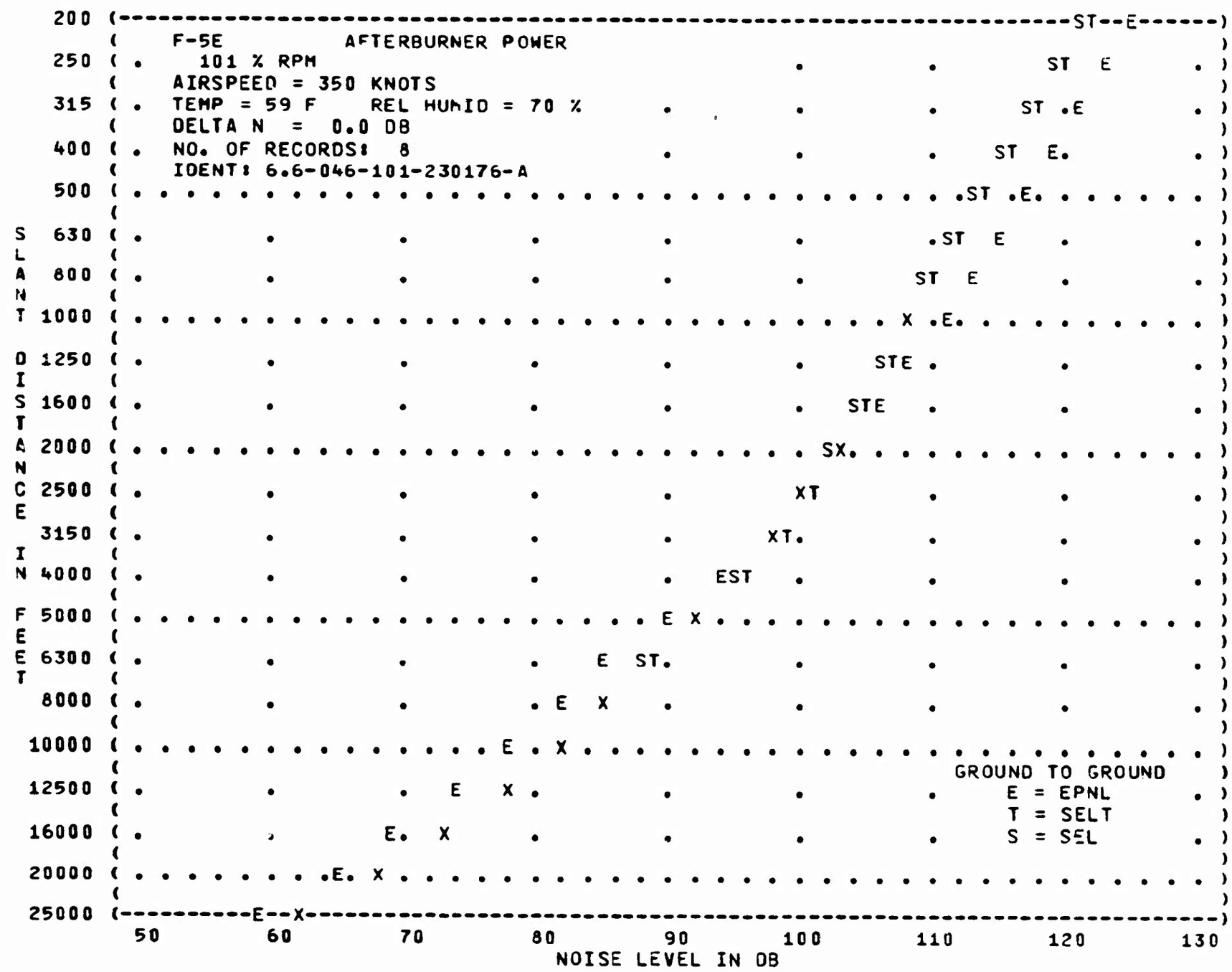
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

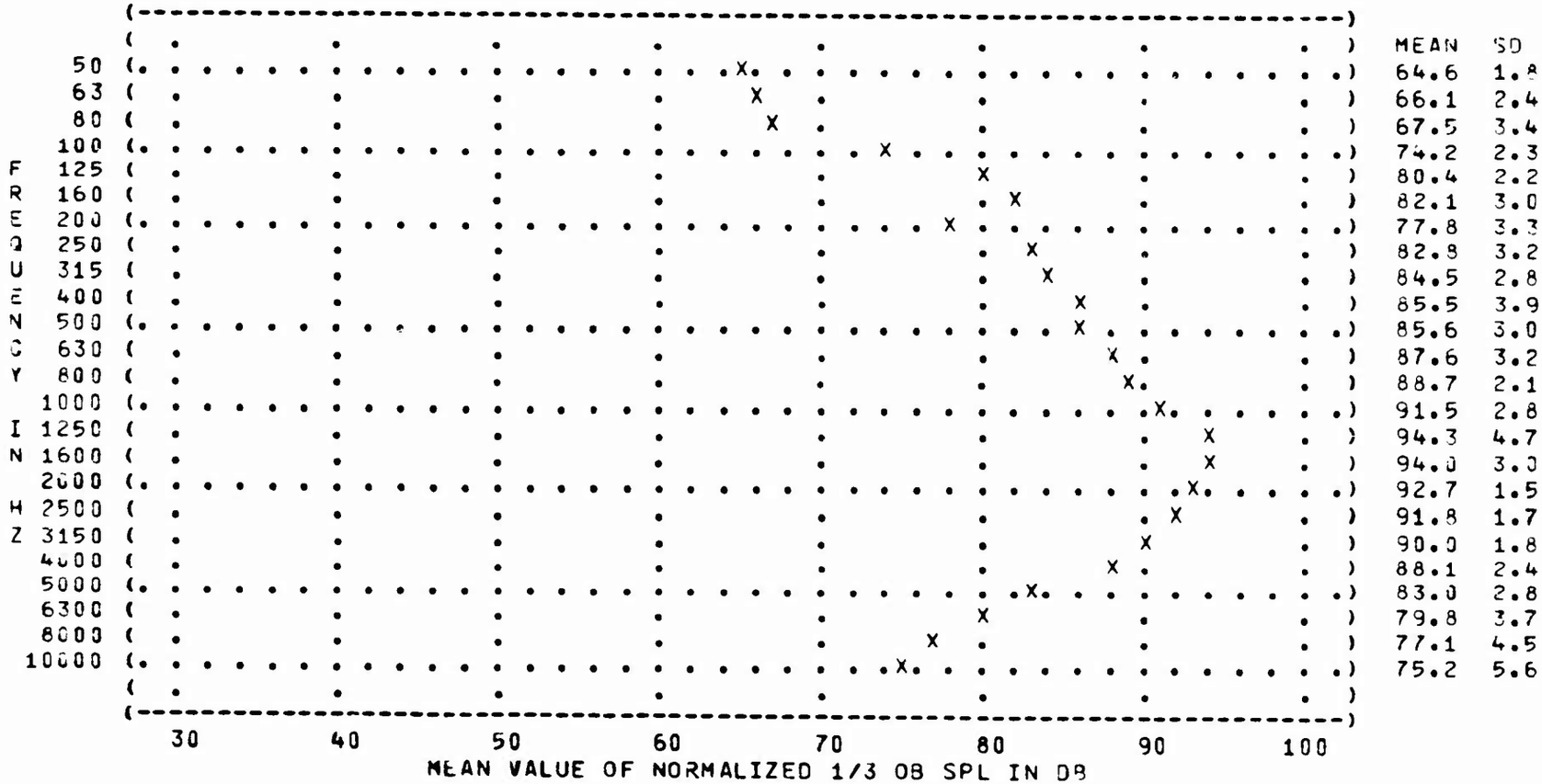
A/C CODE: 046
OPS CODE: 101
PROFILE VER: A
23 JAN 76
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	123.9	124.4	137.4	137.9	120.7	121.5	125.2
250	121.0	121.5	134.6	135.1	118.9	119.7	123.4
315	118.1	118.6	131.6	132.1	116.9	117.7	121.4
400	115.1	115.6	128.3	128.9	114.9	115.8	119.2
500	112.1	112.7	125.3	125.9	113.0	113.8	117.2
630	109.3	109.8	122.4	122.9	111.1	111.9	115.2
800	106.5	107.0	119.3	119.8	109.3	110.1	113.1
1000	103.7	104.3	116.1	116.6	107.6	108.4	110.9
1250	101.0	101.5	112.7	113.2	105.8	106.7	108.5
1600	98.2	98.7	109.1	109.6	104.1	104.9	105.9
2000	95.4	95.9	105.4	105.9	102.2	103.0	103.2
2500	92.3	92.8	101.7	102.2	100.1	101.0	100.5
3150	89.0	89.5	97.7	98.3	97.8	98.6	97.5
4000	85.3	85.7	93.3	93.7	95.1	95.8	93.9
5000	81.1	81.4	88.4	88.7	91.9	92.4	89.8
6300	76.6	76.8	83.2	83.4	88.4	88.7	85.5
8000	72.3	72.4	78.8	78.9	85.2	85.3	82.0
10000	67.7	67.7	74.1	74.1	81.6	81.6	78.1
12500	62.7	62.7	69.0	69.0	77.5	77.5	74.0
16000	57.2	57.2	63.5	63.5	73.0	73.0	69.5
20000	51.1	51.1	57.6	57.6	68.0	68.0	64.5
25000	44.5	44.5	50.9	50.9	62.3	62.3	58.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-5E AFTERBURNER POWER
101 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-046-101-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-5E AFTERBURNER POWER
101 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-046-101-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-5E TAKEOFF POWER 101 % RPM

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-046-103-230176

PNLT = 114.4 PNDB
PNL = 113.9 PNDB
ALT = 102.6 DBA
AL = 102.1 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

AIRCRAFT: F-5E

OPERATION: TAKEOFF POWER, 101 % RPM, AIRSPEED = 300 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

IDENTIFICATION: OMEGA 6.6

A/C CODE: 046
OPS CODE: 103
PROFILE VER: A
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PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
250	79	80	82	88	95	96	92	97	99	100	100	102	104	107	110	110	109	109	108	108	104	104	106	111
250	77	78	80	86	93	94	90	95	97	98	98	100	102	105	108	108	107	107	106	106	102	101	103	108
315	75	76	78	84	91	92	88	93	95	96	96	98	100	102	106	106	105	105	104	103	99	99	100	104
400	73	74	76	82	89	90	86	91	93	94	94	96	97	100	103	103	103	102	101	101	96	96	96	100
500	71	72	74	80	87	88	84	89	91	92	92	94	95	98	101	101	100	100	99	98	93	92	92	95
630	69	70	72	78	84	86	82	87	89	90	90	92	93	96	99	99	98	97	96	95	90	89	88	89
800	67	68	69	76	82	84	80	85	87	88	88	90	91	94	97	97	95	95	93	92	87	84	83	83
1000	65	66	67	74	80	82<	78	83	84	86	86	88	89	91	94	94	93	92	90	88	83	80	77	75
1250	63	64	65	72	78	80	76	81	82	83	83	85	86	89	92	91	90	89	87	84	79	75	70	66
1600	61	62	63	70	76	78	74	79	80	81	81	83	84	87	89	89	87	85	83	80	74	68	62	55
2000	59	60	61	68	74	76	71	76	78	79	79	81	82	84	86	86	84	82	79	74	68	61	53	42
2500	57	58	59	66	72	74	69	74	76	77	77	78	79	81	83	82	80	78	74	69	61	53	41	26
3150	54	56	57	64	70	72	67	72	74	74	74	76	76	78	80	79	76	73	68	62	54	42	27	7
4000	52	54	55	62	68	69	65	70	71	72	71	73	73	75	77	75	72	68	62	53	44	30	10	
5000	50	52	53	60	66	67	63	67	69	69	69	70	70	72	73	70	66	62	54	43	33	15		
6300	48	50	51	57	63	65	60	65	66	66	66	67	67	68	68	65	61	54	45	32	19			
8000	46	47	49	55	61	63	58	62	63	63	63	63	63	63	63	59	54	46	34	17	2			
10000	44	45	46	53	59	60	55	60	60	60	59	59	58	58	58	53	45	36	21					
12500	42	43	44	51	56	57	52	57	57	57	55	55	53	52	51	44	35	23	5					
16000	40	41	42	48	54	55	49	53	54	53	51	50	47	46	43	35	23	8						
20000	37	38	39	46	51	52	46	50	50	49	46	44	41	38	33	23	9							
25000	35	36	37	43	48	49	43	46	46	44	40	37	32	28	22	8								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-5E

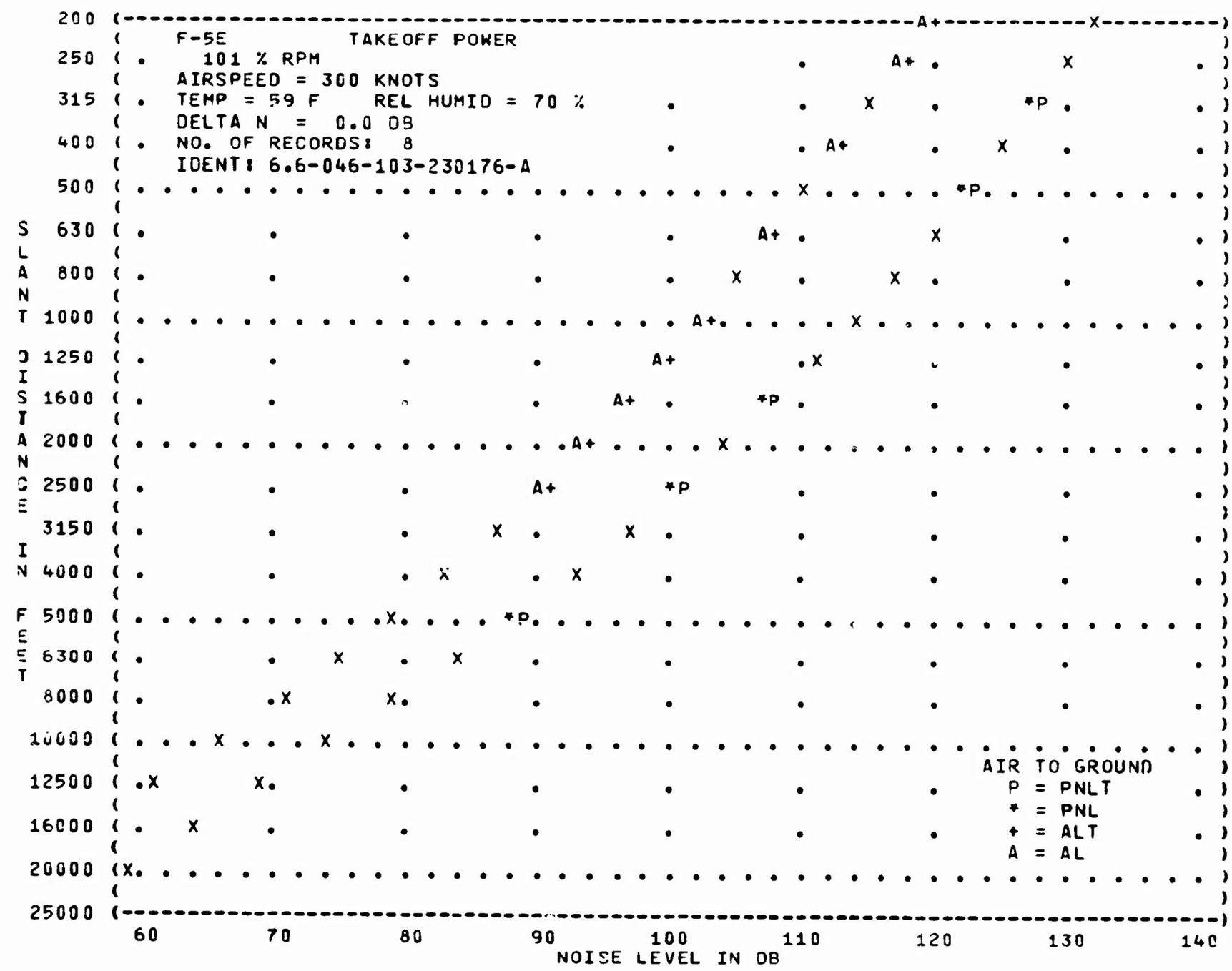
OPERATION:
TAKEOFF POWER
101 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 046
OPS CODE: 103
PROFILE VER: A
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	119.4	119.9	131.9	132.5	120.4	121.5	123.1
250	117.1	117.6	129.6	130.1	119.0	120.2	121.8
315	114.7	115.2	127.2	127.7	117.7	118.9	120.4
400	112.3	112.8	124.8	125.3	116.3	117.5	118.9
500	109.8	110.3	122.2	122.7	114.8	116.0	117.4
630	107.3	107.8	119.6	120.1	113.3	114.5	115.7
800	104.7	105.2	116.8	117.3	111.7	112.9	113.9
1000	102.1	102.6	113.9	114.4	110.0	111.2	112.0
1250	99.3	99.8	110.8	111.3	108.3	109.4	109.9
1600	96.4	96.9	107.5	108.0	106.4	107.5	107.6
2000	93.3	93.8	104.0	104.5	104.3	105.5	105.1
2500	90.1	90.6	100.4	100.9	102.1	103.3	102.5
3150	86.7	87.2	96.7	97.2	99.7	100.9	99.8
4000	83.1	83.5	92.7	93.1	97.0	98.0	96.6
5000	79.2	79.5	88.4	88.7	94.1	94.9	93.1
6300	75.0	75.2	83.7	83.9	91.0	91.5	89.1
8000	70.6	70.7	78.7	78.8	87.6	87.8	84.9
10000	65.9	65.9	73.7	73.7	83.9	83.9	80.7
12500	61.1	61.1	69.1	69.1	80.0	80.0	77.1
16000	56.1	56.1	64.3	64.3	76.0	76.0	73.3
20000	51.0	51.0	59.1	59.1	72.0	72.0	69.1
25000	45.9	45.9	53.5	53.5	67.8	67.8	64.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-5E TAKEOFF POWER
101 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-046-103-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

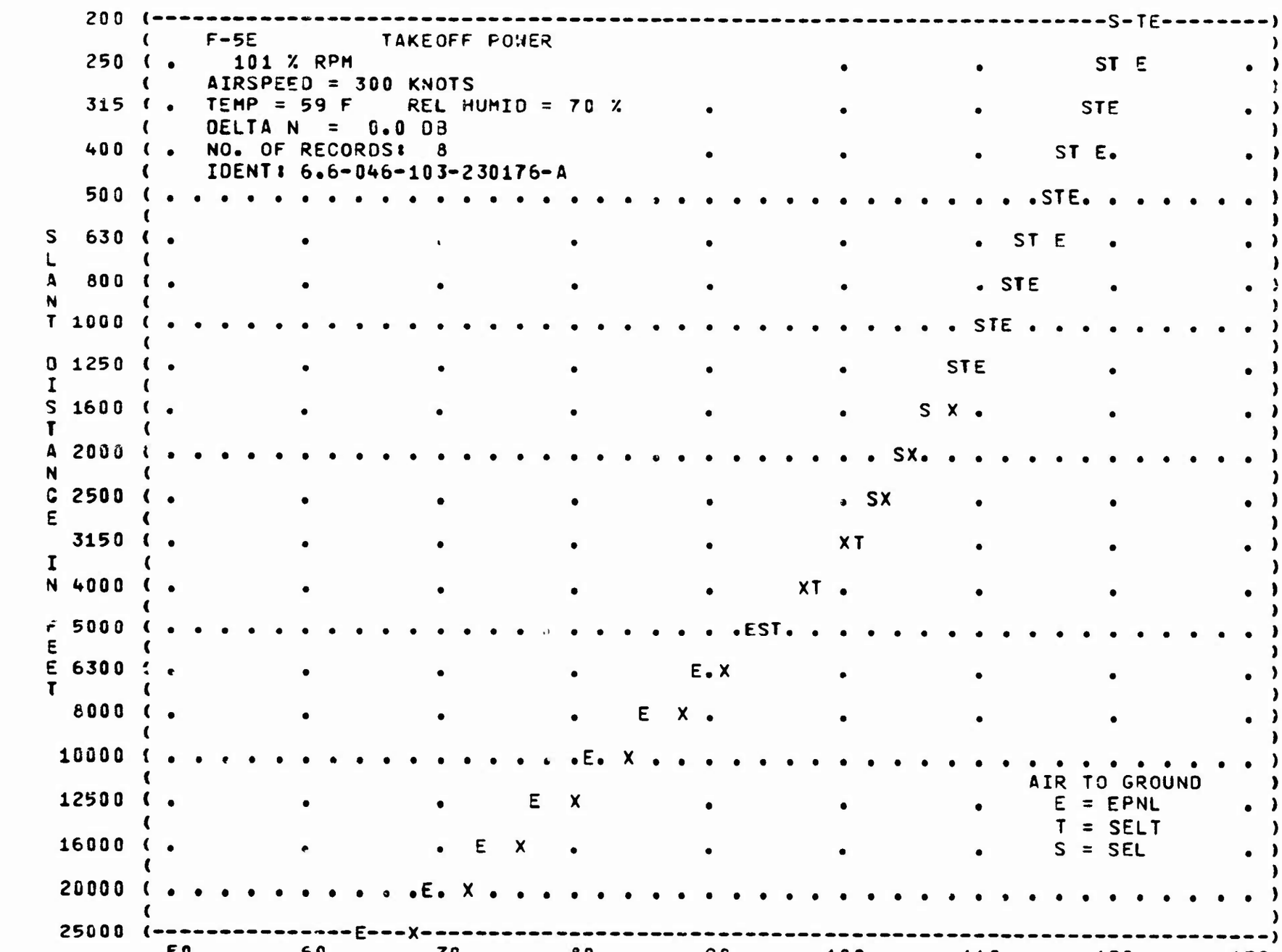

F-5E TAKEOFF POWER
101 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-046-103-230176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-5E

OPERATION:
TAKEOFF POWER
101 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 046
OPS CODE: 103
PROFILE VER: A
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SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	74	75	77	83	90	91	87	92	94	95	95	97	99	102	105	105	104	104	103	103	99	99	101	106
250	72	73	75	81	88	89	85	90	92	93	93	95	97	100	103	103	102	102	101	101	97	96	98	103
315	70	71	73	79	86	87	83	88	90	91	91	93	95	97	101	101	100	100	99	98	94	94	95	99
400	68	69	71	77	84	85	81	86	88	89	89	91	92	95	98	98	98	97	96	96	91	91	91	95
500	66	67	69	75	81	83	78	84	86	87	87	89	90	93	96	96	95	95	94	93	88	87	87	90
630	64	65	67	73	79	80	76	81	84	85	85	87	88	91	94	94	93	92	91	90	85	84	83	84
800	62	63	64	71	76	77	73	79	82	83	83	85	86	89	92	92	90	90	88	87	82	79	78	78
1000	60	61	62	68	73	74	70	76	79	81	81	83	84	86	89	89	88	87	85	83	78	75	72	70
1250	58	59	59	65	70	71	67	72	76	78	78	80	81	84	87	86	85	84	82	79	74	70	65	61
1600	56	56	56	61	67	68	63	69	73	76	76	78	79	82	84	84	82	80	78	75	69	63	57	50
2000	52	52	52	58	63	64	59	65	70	74	74	76	77	79	81	81	79	77	74	69	63	56	48	37
2500	49	48	48	53	58	60	55	61	66	70	71	73	74	76	78	77	75	73	69	64	56	48	36	21
3150	45	44	44	48	54	55	50	56	61	66	68	71	71	73	75	74	71	68	63	57	49	37	22	2
4000	40	39	38	43	48	49	44	50	56	61	64	67	68	70	72	70	67	63	57	48	39	25	5	
5000	35	34	34	38	43	44	40	45	50	56	60	63	65	67	68	65	61	57	49	38	28	10		
6300	30	30	29	33	38	39	35	40	44	50	56	59	61	63	63	60	56	49	40	27	14			
8000	28	27	27	31	36	37	32	37	41	47	53	55	57	58	56	54	49	41	29	12				
10000	26	25	24	29	34	35	30	35	38	44	49	51	52	53	53	48	40	31	16					
12500	24	23	22	27	31	32	27	32	35	41	45	47	47	47	46	39	30	18						
16000	22	21	20	24	29	29	24	28	32	37	41	42	41	41	38	30	18	3						
20000	19	18	17	22	26	26	21	25	28	33	36	36	35	33	28	18	4							
25000	17	16	15	19	23	23	17	21	24	28	30	29	26	23	17	3								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-5E

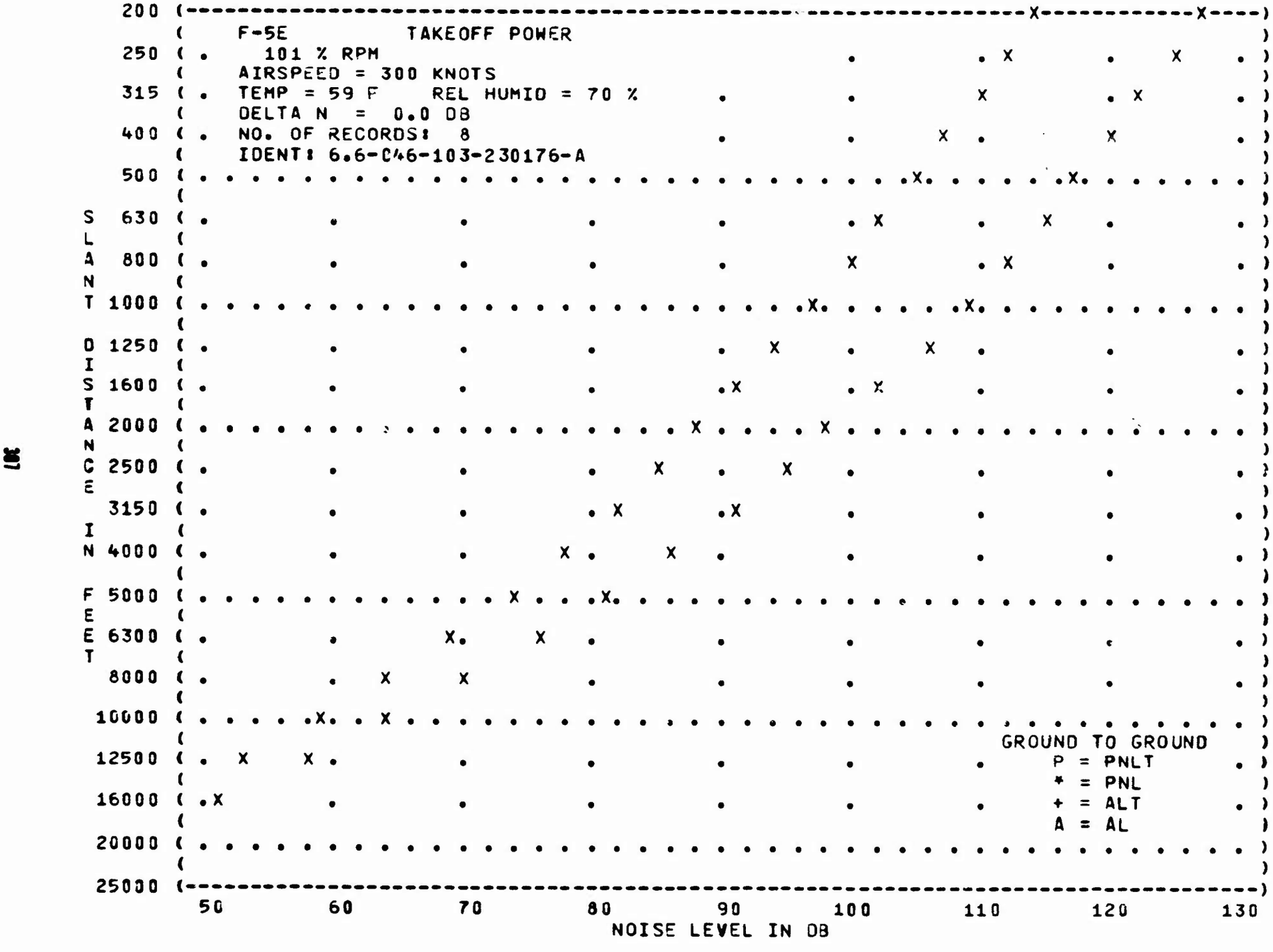
OPERATION:
TAKEOFF POWER
101 % RPM
AIRSPEED = 300 KNOTS

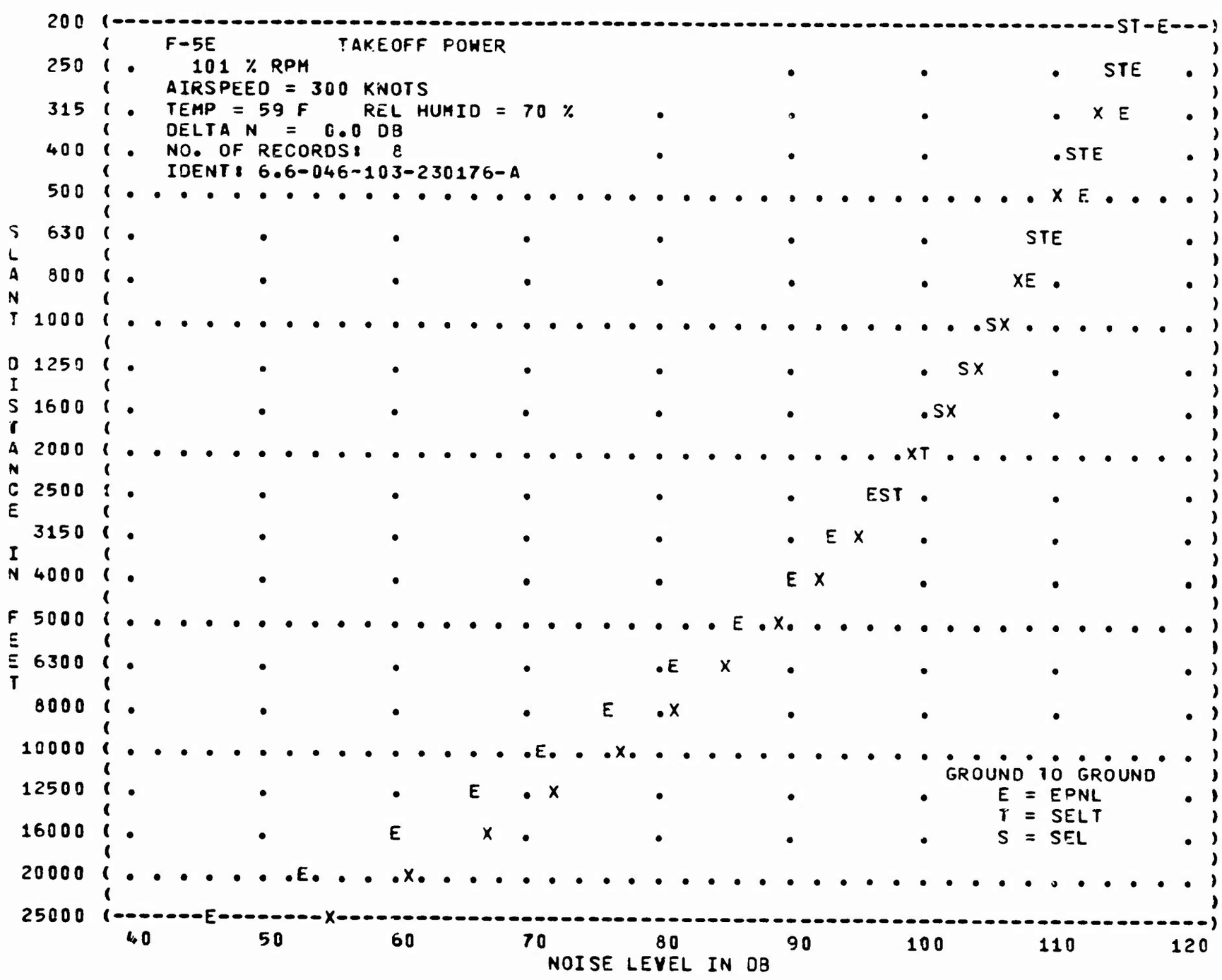
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

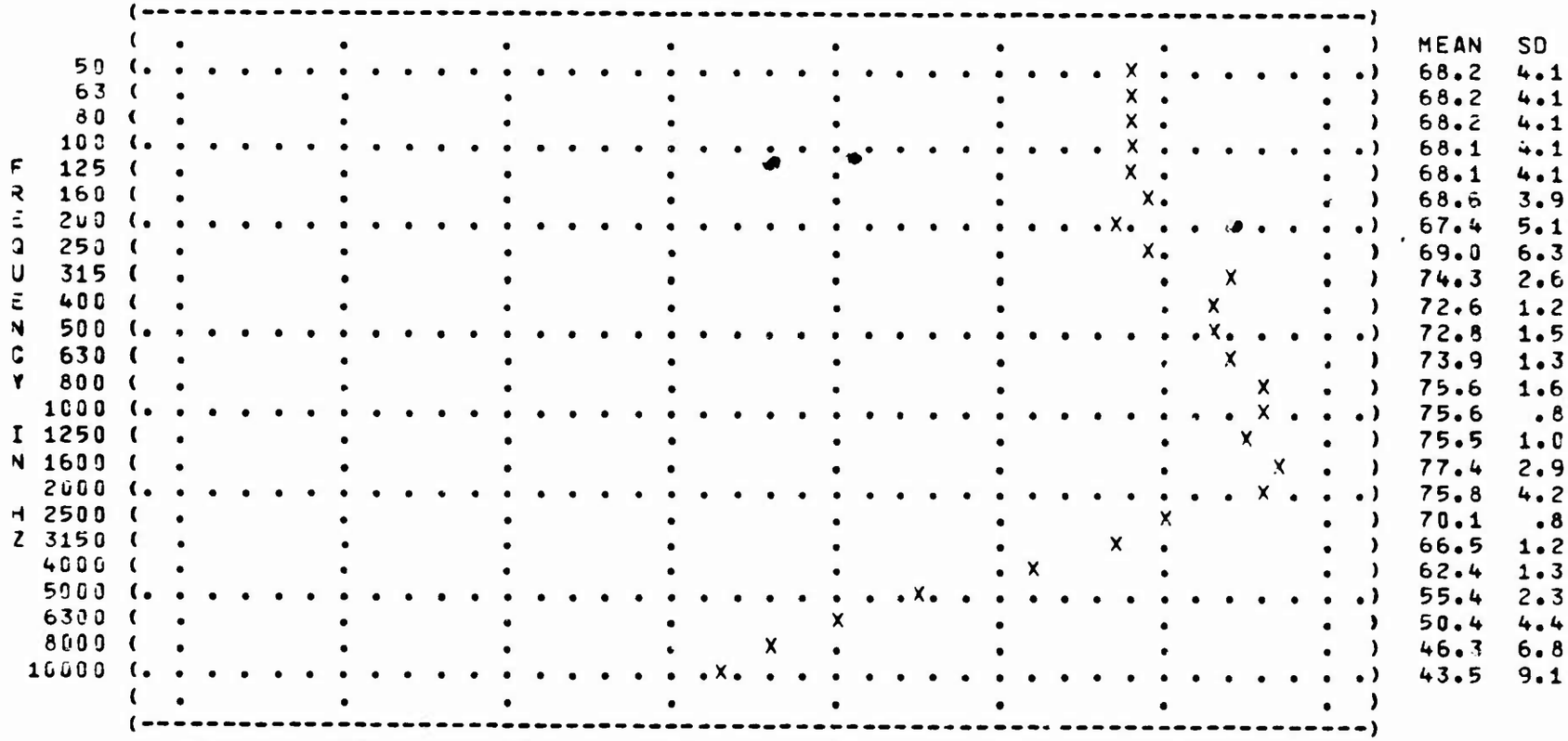
A/C CODE: 046
OPS CODE: 103
PROFILE VER: A
23 JAN 76
PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	114.4	114.4	126.9	126.9	115.4	116.0	117.6
250	112.1	112.1	124.6	124.6	114.0	114.7	116.3
315	109.7	109.7	122.2	122.2	112.7	113.4	114.9
400	107.3	107.3	119.8	119.8	111.3	111.9	113.4
500	104.8	104.8	117.2	117.2	109.8	110.5	111.8
630	102.3	102.3	114.5	114.5	108.3	109.0	110.2
800	99.7	99.7	111.7	111.7	106.7	107.4	108.4
1000	97.1	97.1	108.7	108.7	105.0	105.7	106.4
1250	94.3	94.3	105.5	105.5	103.2	103.9	104.2
1600	91.4	91.4	102.1	102.1	101.3	102.0	101.8
2000	88.3	88.3	98.4	98.4	99.3	100.0	99.1
2500	85.0	85.0	94.6	94.6	97.0	97.7	96.3
3150	81.6	81.6	90.6	90.6	94.5	95.2	93.2
4000	77.8	77.8	86.1	86.1	91.8	92.3	89.6
5000	73.6	73.6	81.2	81.2	88.6	89.0	85.6
6300	69.0	69.0	75.9	75.9	85.0	85.3	81.1
8000	64.2	64.2	70.3	70.3	81.2	81.3	76.4
10000	58.9	58.9	64.4	64.4	76.9	76.9	71.4
12500	53.2	53.2	57.9	57.9	72.2	72.2	65.9
16000	46.9	46.9	51.1	51.1	66.9	66.9	60.1
20000	40.1	40.1	43.5	43.5	61.1	61.1	53.5
25000	32.9	32.9	35.2	35.2	54.9	54.9	46.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-5E TAKEOFF POWER
101 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-C46-103-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-5E TAKEOFF POWER
101 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-046-103-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-5E CRUISE POWER 86 % RPM

AIRSPEED = 325 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 6

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-046-104-230176

PNLT = 96.4 PNDB
PNL = 95.8 PNDB
ALT = 85.2 DBA
AL = 64.6 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-5E

OPERATION: CRUISE POWER, 86 % RPM, AIRSPEED = 325 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 046
OPS CODE: 104
PROFILE VER: A
23 JAN 76
PAGE H3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	82	82	82	82	82	83	82	83	89	87	87	89	91	91	91	94	93	88	85	83	77	76	77	82
250	80	80	80	80	80	81	80	81	87	85	85	87	89	89	89	91	90	85	83	81	75	73	74	78
315	78	78	78	78	78	79	78	79	85	83	83	85	86	87	87	89	88	83	81	78	72	70	70	74
400	76	76	76	76	76	77	76	77	83	81	81	83	84	85	85	87	86	81	78	76	69	67	67	70
500	74	74	74	74	74	75	74	75	81	79	79	80	82	82	83	85	83	78	76	73	66	64	63	65
630	72	72	72	72	72	73	72	73	79	77	77	78	80	80	80	82	81	76	73	70	63	60	58	59
800	70	70	70	70	70	71	69	71	76	75	75	76	78	78	78	80	79	73	70	66	59	55	53	52
1000	68	68	68	68	68	69	67	69	74<	73	73	74	76	76	75	77	76	70	67	62	55	50	46	43
1250	66	66	66	66	66	67	65	67	72	70	71	72	73	73	73	75	73	67	63	58	51	45	39	34
1600	64	64	64	64	64	64	63	65	70	68	68	69	71	71	70	72	70	63	59	53	45	38	30	22
2000	62	62	62	62	62	62	61	63	68	66	66	67	68	68	67	69	66	60	54	48	39	30	20	7
2500	60	60	60	60	60	60	59	60	66	64	64	64	66	65	64	65	63	55	49	42	32	21	7	
3150	58	58	58	58	58	58	57	58	63	61	61	62	63	62	61	62	58	50	43	34	24	10		
4000	56	56	56	56	56	56	54	56	61	59	58	59	60	59	57	57	54	45	36	25	13			
5000	54	54	54	54	53	54	52	53	58	56	56	56	56	55	53	53	48	38	28	14	1			
6300	52	52	51	51	51	51	50	51	56	53	52	52	53	51	49	47	42	30	18	1				
8000	50	49	49	49	49	49	47	48	53	50	49	49	48	46	43	41	34	21	6					
10000	47	47	47	47	46	46	45	45	50	47	45	45	44	41	37	33	25	10						
12500	45	45	45	44	44	44	42	42	47	43	41	40	38	35	30	25	14							
16000	43	43	42	42	41	41	39	39	43	39	37	35	32	27	21	14	1							
20000	41	40	40	39	38	38	35	35	39	34	31	28	25	18	10	1								
25000	38	38	37	36	35	34	32	31	34	29	25	21	16	8										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 046
OPS CODE: 104
PROFILE VER: A
23 JAN 76
PAGE I3

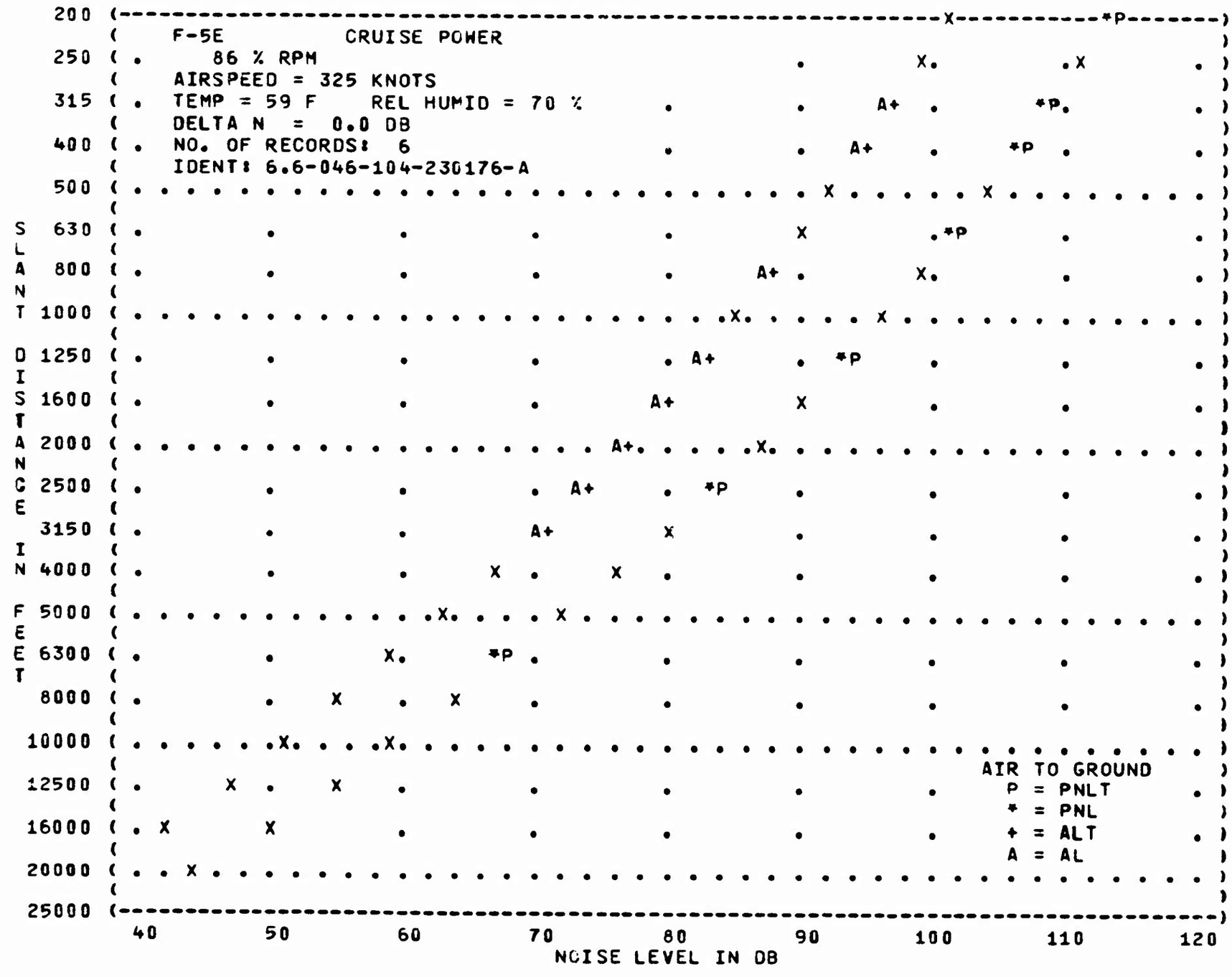
AIRCRAFT:
F-5E

OPERATION:
CRUISE POWER
86 % RPM
AIRSPEED = 325 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	100.7	101.3	113.0	113.6	98.5	99.6	101.7
250	98.6	99.1	110.8	111.4	97.3	98.4	100.4
315	96.4	97.0	108.5	109.1	96.2	97.2	99.2
400	94.1	94.7	106.1	106.7	94.9	96.0	97.8
500	91.9	92.4	103.7	104.3	93.6	94.7	96.4
630	89.5	90.1	101.2	101.8	92.3	93.4	94.9
800	87.1	87.7	98.6	99.2	90.9	92.0	93.2
1000	84.6	85.2	96.8	96.4	89.4	90.4	91.5
1250	82.0	82.6	92.9	93.5	87.8	88.8	89.6
1600	79.2	79.8	89.9	90.5	86.0	87.1	87.6
2000	76.4	77.0	86.8	87.4	84.2	85.2	85.4
2500	73.3	73.9	83.4	84.0	82.1	83.2	83.1
3150	70.1	70.7	79.8	80.4	79.9	80.9	80.5
4000	66.7	67.1	76.0	76.5	77.4	78.3	77.5
5000	63.0	63.4	71.8	72.1	74.8	75.4	74.0
6300	59.2	59.4	67.4	67.7	72.0	72.4	70.5
8000	55.2	55.3	63.6	63.7	68.9	69.2	67.4
10000	51.0	51.0	59.4	59.4	65.7	65.7	64.0
12500	46.6	46.6	54.8	54.8	62.4	62.4	60.4
16000	42.0	42.0	49.8	49.8	58.8	58.8	56.4
20000	37.3	37.3	44.2	44.2	55.1	55.1	51.8
25000	32.4	32.4	37.8	37.8	51.2	51.2	46.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-5E CRUISE POWER
86 % RPM
AIRSPEED = 325 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 6
IDENT: 6.6-046-104-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

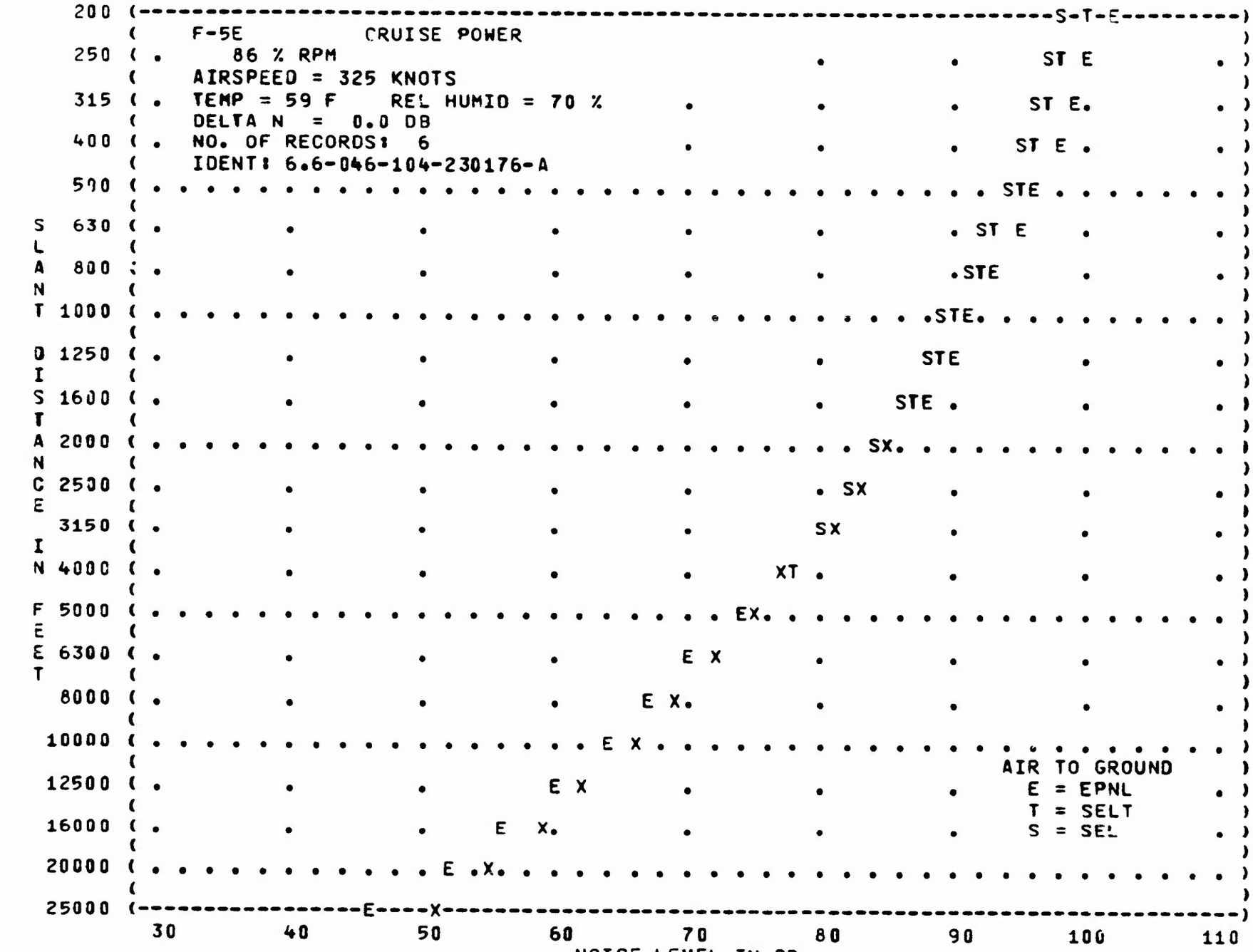

F-5E CRUISE POWER
86 % RPM
AIRSPEED = 325 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 6
IDENT: 6.6-046-104-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-5E

OPERATION:
CRUISE POWER
86 % RPM
AIRSPEED = 325 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 046
OPS CODE: 104
PROFILE VER: A
23 JAN 76
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	77	77	77	77	77	78	77	78	84	82	82	84	86	86	86	89	88	83	80	78	72	71	72	77
250	75	75	75	75	75	76	75	76	82	80	80	82	84	84	84	86	85	80	78	76	70	68	69	73
315	73	73	73	73	73	74	73	74	80	78	78	80	81	82	82	84	83	78	76	73	67	65	65	69
400	71	71	71	71	71	72	70	72	78	76	76	78	79	80	80	82	81	76	73	71	64	62	62	65
500	69	69	69	69	69	69	68	70	76	74	74	75	77	77	78	80	78	73	71	68	61	59	58	60
630	67	67	67	67	67	67	65	67	74	72	72	73	75	75	75	77	76	71	68	65	58	55	53	54
800	65	65	65	65	64	64	63	65	71	70	70	71	73	73	73	75	74	68	65	61	54	50	48	47
1000	63	63	63	62	61	61	60	62	69<	68	68	69	71	71	70	72	71	65	62	57	50	45	41	38
1250	61	61	60	59	58	58	56	59	66	65	66	67	68	68	68	70	68	62	58	53	46	40	34	29
1600	59	58	57	55	54	54	53	55	63	63	63	64	66	66	65	67	65	58	54	48	40	33	25	17
2000	56	54	53	51	50	50	49	51	59	61	61	62	63	63	62	64	61	55	49	43	34	25	15	2
2500	52	50	49	47	46	46	45	47	55	57	58	59	61	60	59	60	58	50	44	37	27	16	2	
3150	48	46	44	42	41	41	40	42	51	53	55	57	58	57	56	57	53	45	38	29	19	5		
4000	44	41	39	37	36	35	34	36	46	48	51	53	55	54	52	52	49	40	31	20	8			
5000	39	36	34	32	31	31	29	31	40	43	47	49	51	50	48	48	43	33	23	9				
6300	34	32	29	27	26	26	24	26	34	37	42	44	47	46	44	42	37	25	13					
8000	32	29	27	25	24	23	22	23	31	34	39	41	42	41	38	36	29	16	1					
10000	29	27	25	23	21	21	19	20	28	31	35	37	38	36	32	28	20	5						
12500	27	25	23	20	19	18	16	17	25	27	31	32	32	30	25	20	9							
16000	25	23	20	18	16	15	13	14	21	23	27	27	26	22	16	9								
20000	23	20	18	15	13	12	10	10	17	18	21	20	19	13	5									
25000	20	18	15	12	10	9	6	6	12	13	15	13	10	3										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-5E

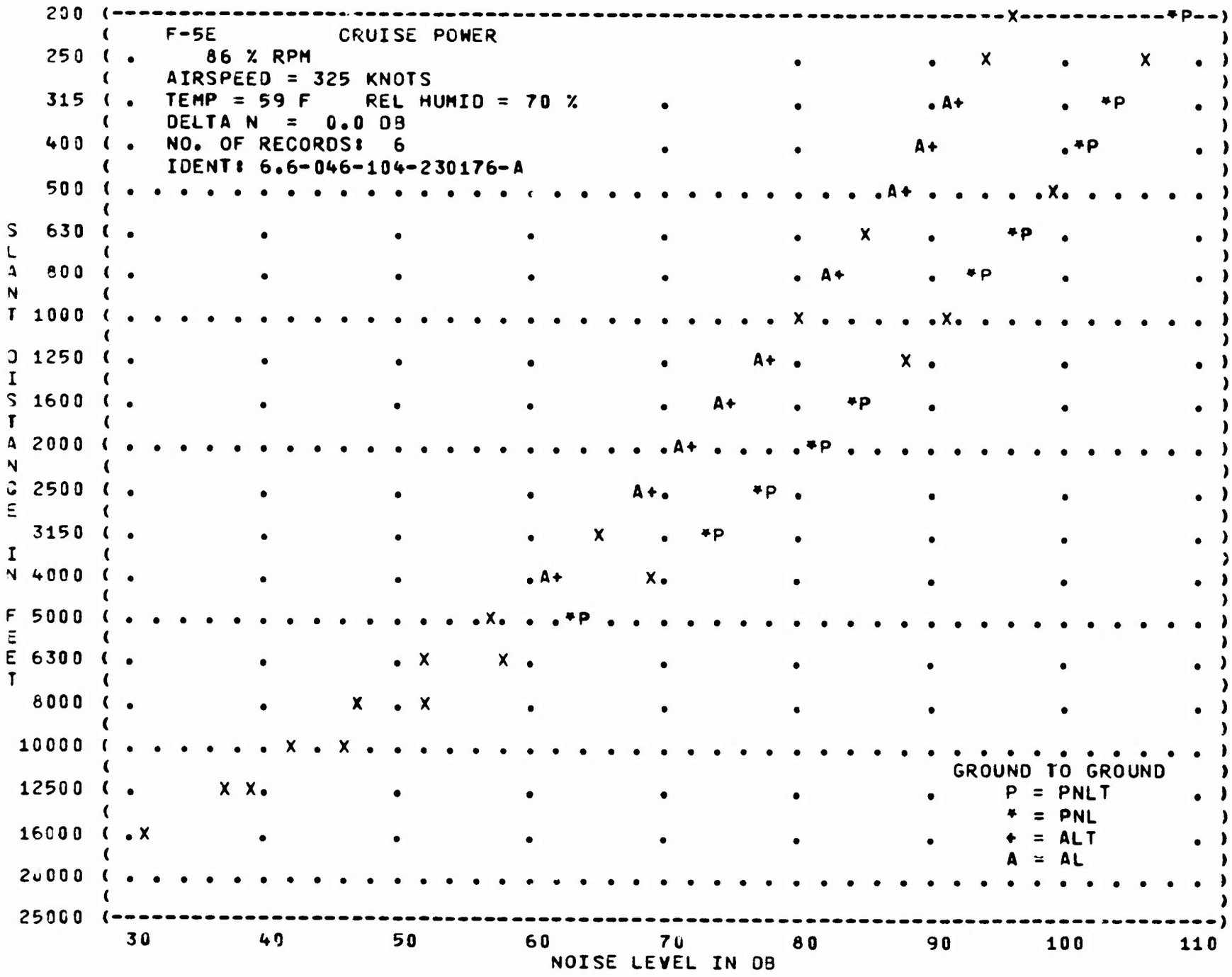
OPERATION:
CRUISE POWER
86 % RPM
AIRSPEED = 325 KNOTS

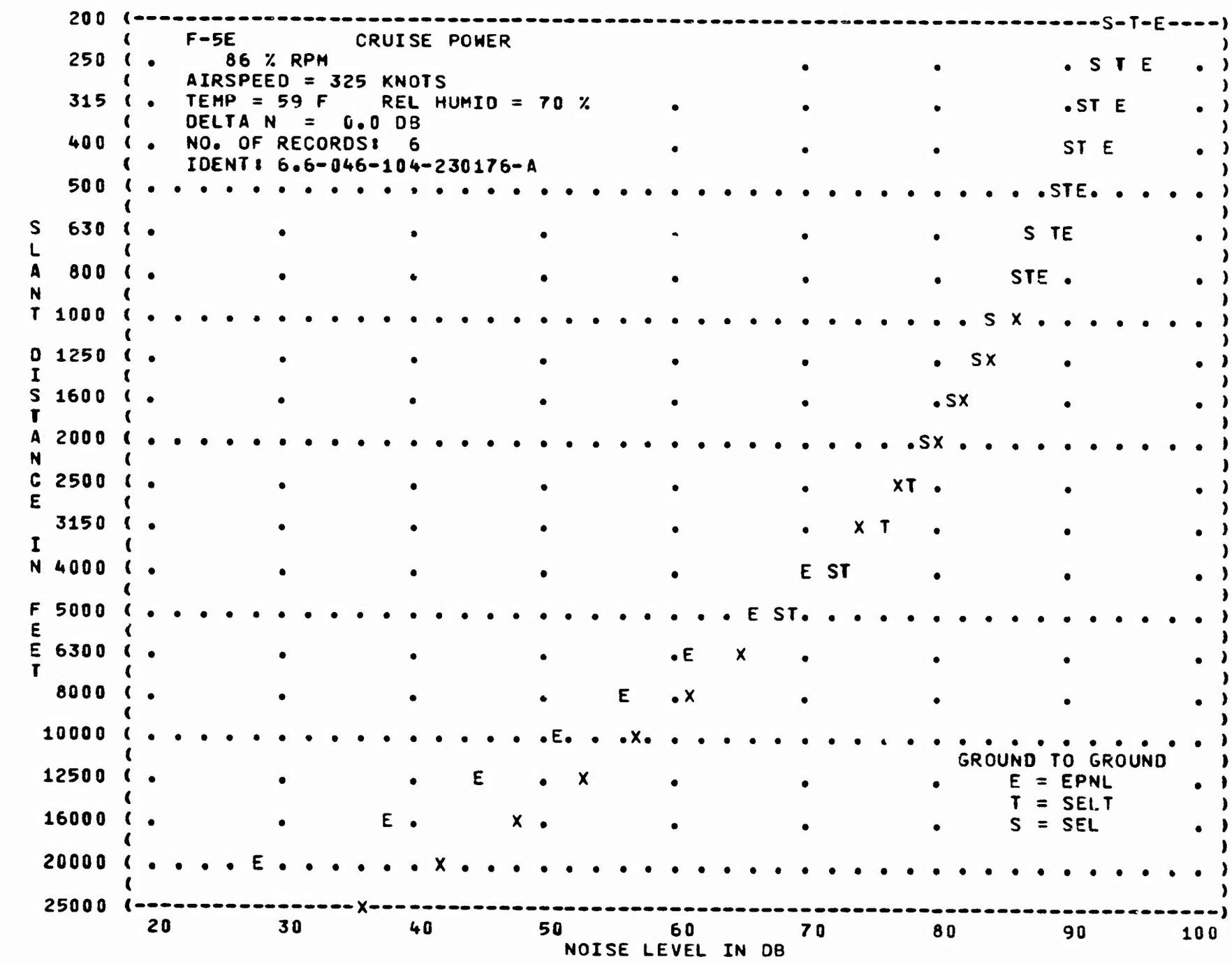
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

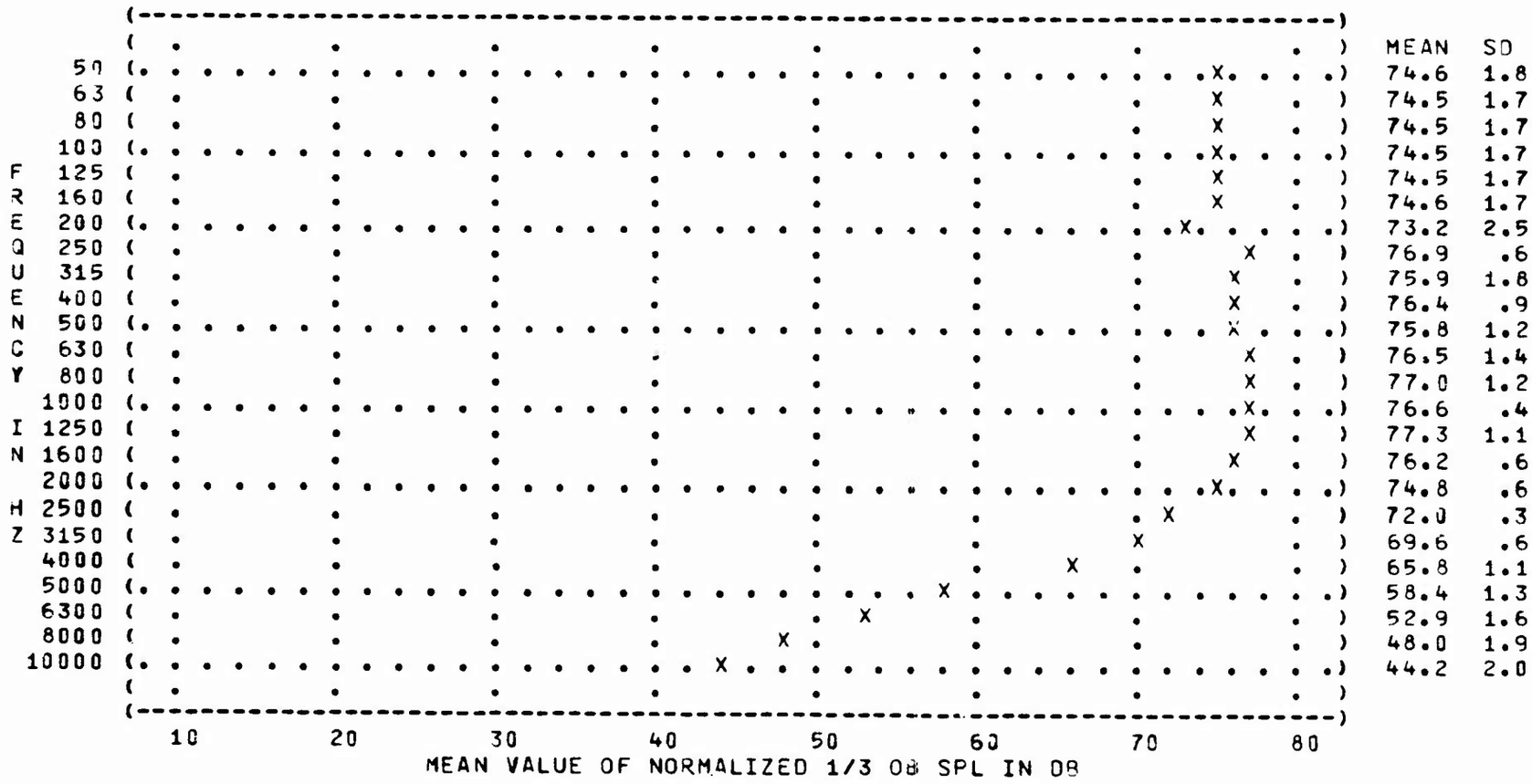
A/C CODE: 046
OPS CODE: 104
PROFILE VER: A
23 JAN 76
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	95.7	96.5	108.0	108.7	93.5	94.7	96.8
250	93.6	94.3	105.7	106.5	92.3	93.6	95.6
315	91.4	92.1	103.4	104.2	91.2	92.4	94.3
400	89.1	89.9	101.1	101.8	89.9	91.2	92.9
500	86.9	87.6	98.6	99.4	88.6	89.9	91.4
630	84.5	85.3	96.1	96.8	87.3	88.5	89.9
800	82.1	82.8	93.4	94.1	85.9	87.1	88.2
1000	79.6	80.3	90.5	91.3	84.4	85.6	86.4
1250	76.9	77.7	87.5	88.3	82.7	84.0	84.4
1600	74.2	74.9	84.3	85.1	81.0	82.2	82.2
2000	71.3	72.0	80.9	81.7	79.0	80.3	79.8
2500	68.1	68.9	77.2	78.0	76.9	78.1	77.1
3150	64.7	65.4	73.1	73.9	74.5	75.7	74.0
4000	60.9	61.5	68.5	69.2	71.7	72.7	70.1
5000	56.7	57.1	63.5	63.9	68.5	69.2	65.8
6300	52.0	52.3	57.8	58.1	64.8	65.3	60.9
8000	47.3	47.5	52.1	52.3	61.1	61.4	56.0
10000	42.3	42.3	46.1	46.1	57.1	57.1	50.7
12500	36.8	36.8	39.3	39.3	52.6	52.6	44.9
16000	30.8	30.8	31.3	31.3	47.6	47.6	37.9
20000	24.2	24.2	20.5	20.5	42.0	42.0	28.1
25000	17.2	17.2	9.6	9.6	36.0	36.0	18.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-5E CRUISE POWER
86 % RPM
AIRSPEED = 325 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 6
IDENT: 6.6-046-104-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-5E CRUISE POWER
86 % RPM
AIRSPEED = 325 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 6
IDENT: 6.6-046-104-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB



F-5E APPROACH POWER 82 % RPM

AIRSPEED = 170 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 3

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-046-105-230176

PNLT = 97.3 PNDB
PNL = 97.3 PNDB
ALT = 85.6 DBA
AL = 85.6 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 040
OPS CODE: 105
PROFILE VER: A
23 JAN 76
PAGE H4

AIRCRAFT: F-5E

OPERATION:
APPROACH POWER
82 % RPM
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	89	89	89	89	89	89	87	91	90	91	90	91	92	92	93	92	91	89	88	86	80	78	78	81
250	87	87	87	87	87	87	85	89	88	89	88	89	90	90	91	90	89	87	86	84	78	75	75	78
315	85	85	85	85	85	85	83	87	86	87	86	87	88	88	89	88	87	85	84	81	75	72	71	74
400	83	83	83	83	83	83	81	85	84	85	84	85	86	86	86	86	85	83	81	79	72	69	68	70
500	81	81	81	81	81	81	79	83	82	83	82	83	84	83	84	83	82	80	78	76	69	66	64	65
630	79	79	79	79	79	79	77	81	80	81	80	81	81	81	82	81	80	78	76	73	66	62	59	59
800	77	77	77	77	77	77	75	79	78	78	78	79	79	79	80	79	77	75	73	69	62	58	54	52
1000	75	75	75	75	75	75	73	77	76	76	76	77	77	77	77	76	75	72	70	66	58	53	48	44
1250	73	73	73	72	72	73	71	75	74	74	74	74	75	74	75	74	72	69	66	62	54	47	41	35
1600	71	70	70	70	70	70	69	73	72	72	71	72	72	72	72	71	69	65	62	57	49	41	32	23
2000	68	68	68	68	68	68	67	71	69	70	69	70	70	69	69	68	66	62	58	52	43	33	22	10
2500	66	66	66	66	66	66	65	68	67	67	67	67	67	66	66	64	62	58	53	46	36	24	10	
3150	64	64	64	64	64	64	63	66	65	65	64	64	64	63	63	61	58	53	47	38	28	14		
4000	62	62	62	62	62	62	60	64	63	63	61	62	61	60	59	57	53	47	40	30	18	1		
5000	60	60	60	60	60	60	58	61	60	60	59	59	58	56	55	52	48	41	32	19	6			
6300	58	58	58	58	58	57	56	59	57	57	56	55	54	52	51	47	42	33	23	7				
8000	56	56	56	56	55	55	53	56	55	54	52	52	50	48	46	41	34	24	12					
10000	54	54	53	53	53	52	50	53	52	51	49	48	46	43	40	33	26	14						
12500	52	51	51	51	50	50	48	51	48	47	45	43	41	37	33	25	15	1						
16000	49	49	49	48	48	47	45	47	45	43	40	38	35	29	24	15	3							
20000	47	47	46	46	45	44	41	44	41	39	35	32	27	21	14	2								
25000	45	44	44	43	42	41	38	40	36	34	29	25	19	11	2									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION

OMEGA 6.6

AIRCRAFT: F-5E

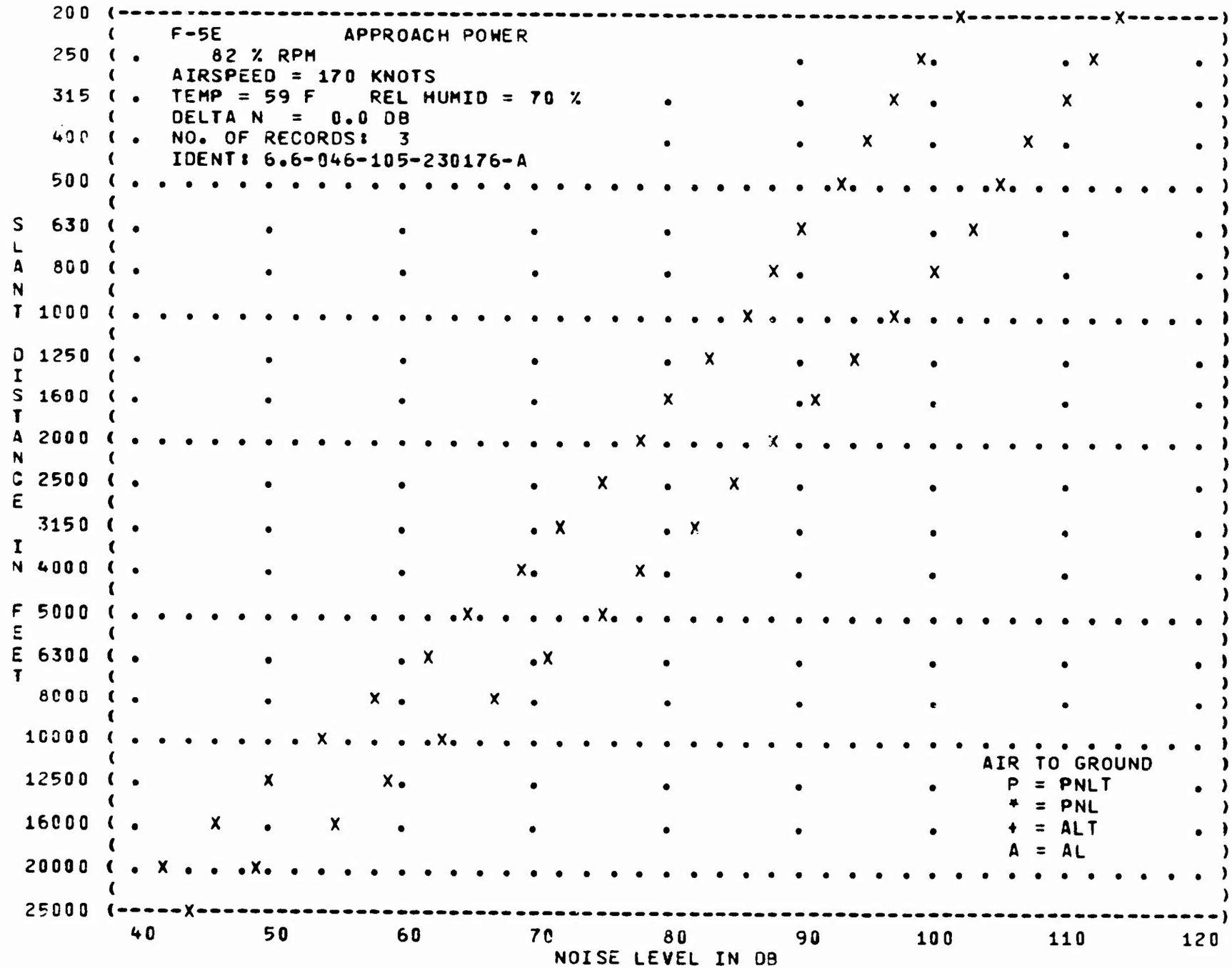
OPERATION: APPROACH POWER, 82 % RPM, AIRSPEED = 170 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 046
OPS CODE: 105
PROFILE VER: A
23 JAN 76
PAGE I4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	101.5	101.5	114.2	114.2	101.1	101.7	104.5
250	99.4	99.4	112.0	112.0	99.9	100.6	103.3
315	97.2	97.2	109.7	109.7	98.8	99.4	102.0
400	95.0	95.0	107.4	107.4	97.5	98.2	100.7
500	92.7	92.7	105.0	105.0	96.3	96.9	99.3
630	90.4	90.4	102.5	102.5	95.0	95.6	97.8
800	88.0	88.0	100.0	100.0	93.6	94.2	96.2
1000	85.6	85.6	97.3	97.3	92.1	92.8	94.5
1250	83.0	83.0	94.4	94.4	90.6	91.2	92.7
1600	80.4	80.4	91.5	91.5	89.0	89.6	90.7
2000	77.7	77.7	88.3	88.3	87.2	87.8	88.6
2500	74.8	74.8	85.1	85.1	85.3	86.0	86.4
3150	71.8	71.8	81.7	81.7	83.3	83.9	83.9
4000	68.6	68.6	78.0	78.0	81.1	81.6	81.1
5000	65.3	65.3	74.6	74.6	78.8	79.2	78.6
6300	61.8	61.8	71.1	71.1	76.3	76.6	76.0
8000	58.1	58.1	67.4	67.4	73.6	73.8	73.1
10000	54.3	54.3	63.4	63.4	70.8	70.8	70.1
12500	50.3	50.3	59.1	59.1	67.9	67.9	66.7
16000	46.2	46.2	54.5	54.5	64.7	64.7	63.2
20000	41.9	41.9	49.5	49.5	61.4	61.4	59.1
25000	37.4	37.4	43.9	43.9	58.0	58.0	54.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-5E APPROACH POWER
82 % RPM
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 3
IDENT: 6.6-046-105-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

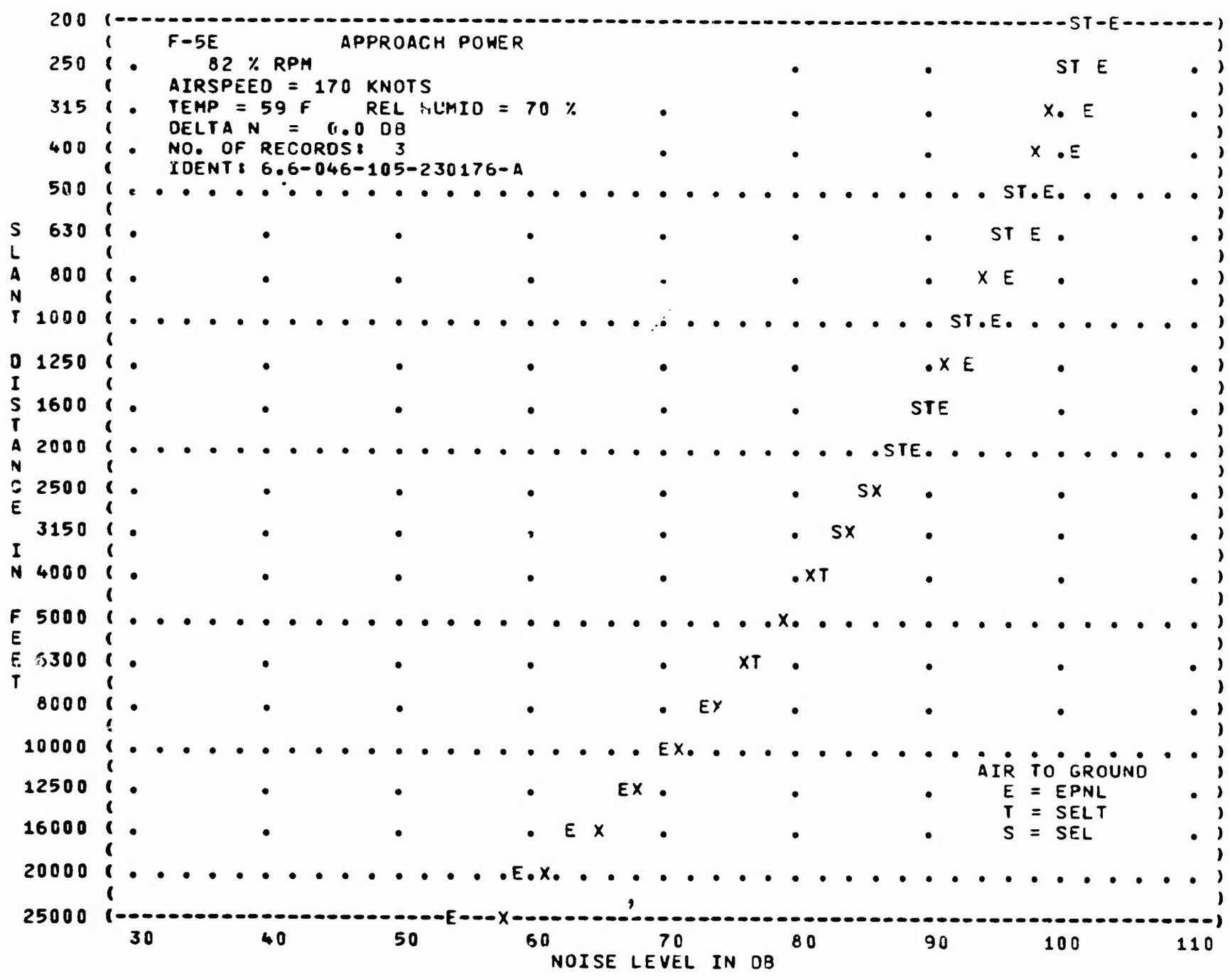

F-5E APPROACH POWER
82 % RPM
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 3
IDENT: 6.6-046-105-230176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-5E

OPERATION:
APPROACH POWER
82 % RPM
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
A/C CODE: 046
OPS CODE: 105
PROFILE VER: A
23 JAN 76
PAGE L4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	84	84	84	84	84	84	82	86	85	86	85	86	87	87	88	87	86	84	83	81	75	73	73	76
250	82	82	82	82	82	82	80	84	83	84	83	84	85	85	86	85	84	82	81	79	73	70	70	73
315	80	80	80	80	80	80	78	82	81	82	81	82	83	83	84	83	82	80	79	76	70	67	66	69
400	78	78	78	78	78	78	76	80	79	80	79	80	81	81	81	81	80	78	76	74	67	64	63	65
500	76	76	76	76	75	75	74	78	77	78	77	78	79	78	79	78	77	75	73	71	64	61	59	60
630	74	74	74	74	73	72	71	75	75	76	75	76	76	76	77	76	75	73	71	68	61	57	54	54
800	72	72	72	71	70	70	68	73	73	73	73	74	74	74	75	74	72	70	68	64	57	53	49	47
1000	70	70	70	68	67	67	65	70	71	71	71	72	72	72	72	71	70	67	65	61	55	48	43	39
1250	68	68	66	65	64	64	62	66	68	69	69	69	70	69	70	69	67	64	61	57	49	42	36	30
1600	66	64	63	62	61	60	59	63	65	67	66	67	67	67	67	66	64	60	57	52	44	36	27	18
2000	62	61	59	58	57	56	55	59	61	65	64	65	65	64	64	63	61	57	53	47	38	28	17	5
2500	59	57	55	54	53	52	51	55	57	61	62	62	62	61	61	59	57	53	48	41	31	19	5	
3150	55	52	51	49	48	47	46	50	53	57	58	59	59	58	58	56	53	48	42	33	23	9		
4000	50	47	45	43	42	41	40	44	47	52	54	56	56	55	54	52	48	42	35	25	13			
5000	45	43	41	38	37	37	35	39	41	47	50	52	53	51	50	47	43	36	27	14	1			
6300	40	38	36	34	33	32	30	34	35	41	46	47	48	47	46	42	37	28	18	2				
8000	38	36	34	32	30	29	28	31	33	38	42	44	44	43	41	36	29	19	7					
10000	36	34	31	29	28	27	25	28	30	35	39	40	40	38	35	28	21	9						
12500	34	31	29	27	25	24	22	26	26	31	35	35	35	32	28	20	10							
16000	31	29	27	24	23	21	19	22	23	27	30	30	29	24	19	10								
20000	29	27	24	22	20	18	16	19	19	23	25	24	21	16	9									
25000	27	24	22	19	17	15	12	15	14	18	19	17	13	6										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-5E

OPERATION:
APPROACH POWER
82 % RPM

AIRSPEED = 170 KNOTS

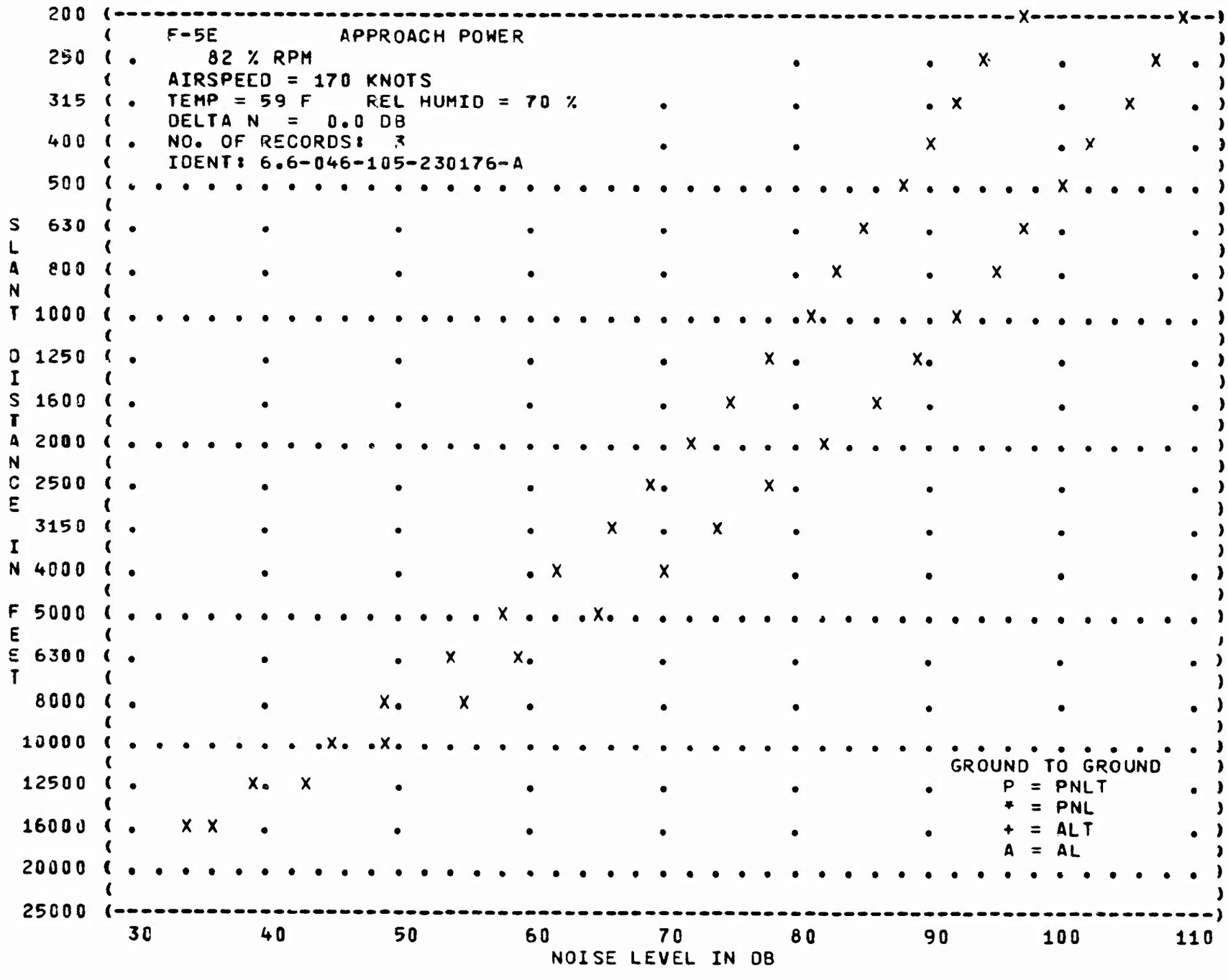
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

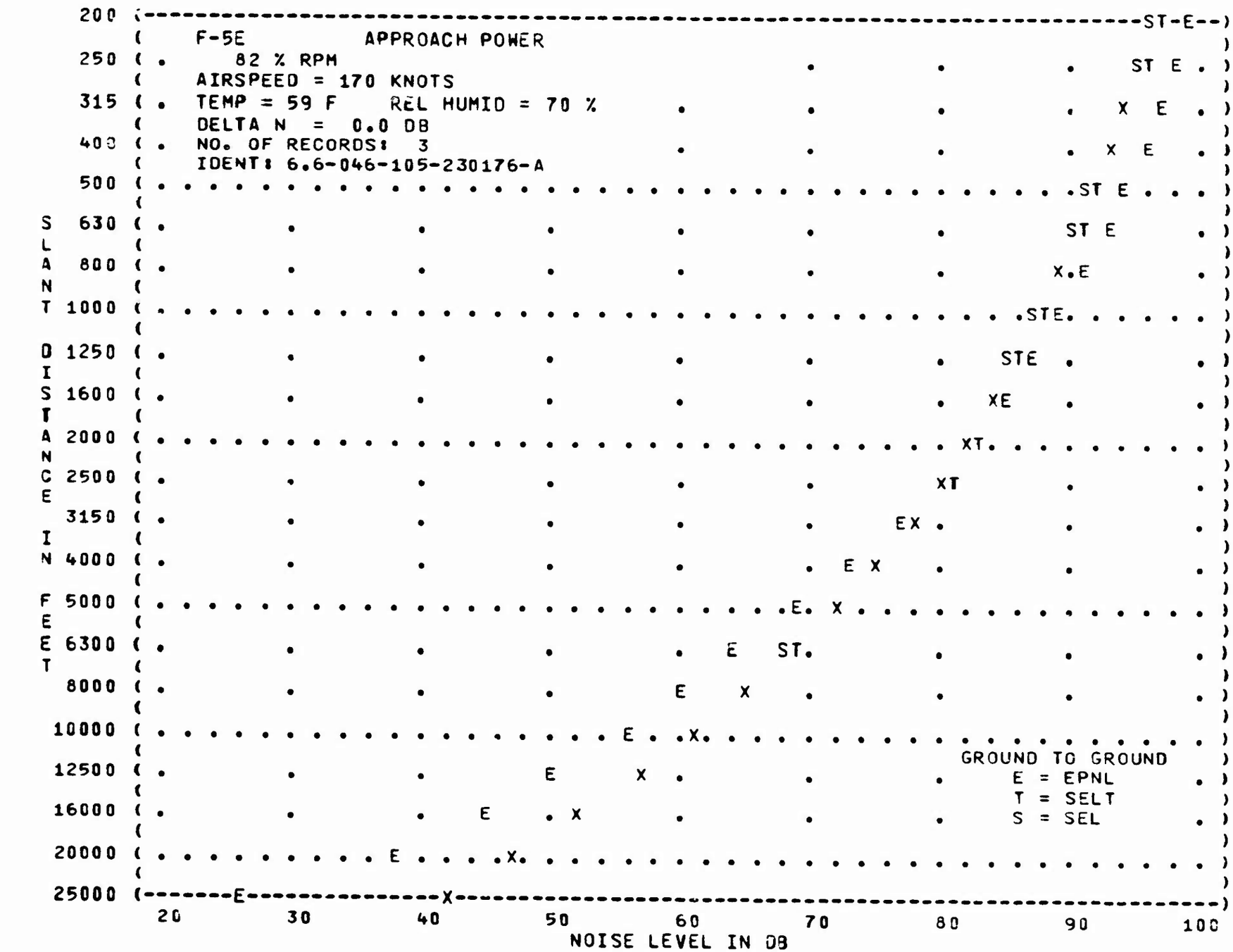
DELTA N = 0.0 DB

A/C CODE: 046
OPS CODE: 105
PROFILE VER: A
23 JAN 76
PAGE M4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	96.5	96.5	109.2	109.2	96.1	96.7	99.4
250	94.4	94.4	107.0	107.0	94.9	95.6	98.2
315	92.2	92.2	104.7	104.7	93.8	94.4	96.9
400	90.0	90.0	102.3	102.3	92.5	93.2	95.6
500	87.7	87.7	99.9	99.9	91.3	91.9	94.2
630	85.4	85.4	97.4	97.4	89.9	90.6	92.6
800	83.0	83.0	94.7	94.7	88.6	89.2	91.0
1000	80.5	80.5	91.9	91.9	87.1	87.7	89.1
1250	77.9	77.9	88.9	88.9	85.5	86.1	87.1
1600	75.2	75.2	85.6	85.6	83.8	84.4	84.9
2000	72.4	72.4	82.2	82.2	82.0	82.6	82.5
2500	69.4	69.4	78.5	78.5	79.9	80.5	79.8
3150	66.1	66.1	74.4	74.4	77.6	78.2	76.6
4000	62.4	62.4	69.8	69.8	75.0	75.5	72.9
5000	58.3	58.3	64.7	64.7	71.8	72.2	68.7
6300	53.8	53.8	59.4	59.4	68.4	68.6	64.3
8000	49.4	49.4	54.7	54.7	65.0	65.1	60.5
10000	44.7	44.7	49.2	49.2	61.2	61.2	55.8
12500	39.5	39.5	42.8	42.8	57.0	57.0	50.5
16000	33.8	33.8	35.9	35.9	52.4	52.4	44.5
20000	27.7	27.7	28.1	28.1	47.2	47.2	37.7
25000	21.1	21.1	15.3	15.3	41.6	41.6	25.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-5E APPROACH POWER
82 % RPM
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 3
IDENT: 6.6-046-105-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-5E APPROACH POWER
82 % RPM
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 3
IDENT: 6.6-046-105-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL

USAF F-5E AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

F-5E AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-004-039
AIRCRAFT CODE: 046
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
50% RPM, 395 C EGT, 500LBS/HR	328-333
80% RPM, 340 C EGT, 900 LBS/HR	334-339
MIL 100% RPM, 670 C EGT, 3150 LBS/HR	340-345
AFTERBURNER 100% RPM, 670 C EGT, 10000 LBS/HR	346-351

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

06 APR 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 01
AIRCRAFT CODE 346
OPERATION CODE 02013
PROFILE VERSION A
06 APR 76
PAGE C1

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
IDLE, 50% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	64	64	64	65	64	65	63	64	64	63	64	64	62	65	65	67	67	65	63
63	62	63	63	63	63	63	62	62	62	62	61	63	63	62	64	65	64	63	61
80	61	62	62	62	59	59	61	59	59	57	60	60	62	61	63	64	64	62	61
100	64	64	63	62	62	63	61	60	61	61	62	61	62	64	66	66	66	63	61
125	67	68	69	68	66	67	66	68	68	66	66	66	66	68	67	67	67	64	59
160	68	68	70	69	68	68	68	70	69	70	71	72	70	69	68	69	67	66	59
200	64	64	63	63	63	64	62	65	64	63	65	65	66	64	64	62	60	59	56<
250	61	63	63	63	63	63	62	60	62	60	61	61	63	65	61	57	55	57	54
315	65	66	65	63	63	62	63	64	63	60	63	63	67	66	63	60	58	61	54
400	64	65	64	62	62	59	60	59	60	56	60	62	65	64	61	59	58	60	51
500	62	63	62	58	57	56	55	51	54	51	55	59	62	61	58	56	56	57	50
630	66	66	65	59	59	58	53	50	55	50	53	57	61	60	57	55	55	55	52
800	67	67	64	62	59	59	54	52	56	51	52	55	59	58	58	56	55	54	46
1000	68	66	65	64	62	61	55	53	55	50	52	54	56	56	56	53	53	52	45
1250	69	66	67	64	63	60	57	55	55	48	48	50	53	52	53	51	50	49	41
1600	72	69	70	68	67	64	59	54	56	51	51	51	52	52	53	51	51	48	41
2000	73	70	71	69	68	65	61	58	58	51	50	50	50	50	52	50	52	48	42
2500	72	70	70	68	68	64	59	57	57	50	52	52	50	51	53	51	52	49	43
3150	73	72	71	71	68	64	60	57	59	50	53	53	52	52	53	50	52	50	43
4000	72	71	72	72	72	68	63	65	63	58	56	57	50	52	54	53	55	51	44
5000	67	66	67	64	65	60	55	57	56	50	50	51	46	46	48	47	48	45	39
6300	69	68	68	66	64	58	51	50	52	41	44	45	44	45	45	41	44	43	34
8000	67	66	67	65	64	58	50	49	50	40	45	44	44	44	42	40	42	41	28<
10000	61	59	60	57	56	50	45	42	44	34<	39	42	40	39	38	34<	36<	35<	22<
OVERALL	82	81	81	80	79	77	75	76	75	74	75	76	76	76	75	75	75	73	69

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
IDLE, 50% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 01
AIRCRAFT CODE 046
OPERATION CODE 02013
PROFILE VERSION A
06 APR 76
PAGE D1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	97.8	96.8	97.2	95.9	95.8	92.4	87.9	88.5	88.0	82.8	83.0	84.0	83.2	83.1	83.1	81.8	82.4	80.1	73.5
250	95.5	94.5	94.8	93.6	93.4	90.1	85.5	86.1	85.6	80.4	80.7	81.6	80.9	80.8	80.7	79.4	80.1	77.7	71.2
315	93.1	92.1	92.4	91.1	91.0	87.6	83.1	83.7	83.2	78.0	78.3	79.2	78.7	78.6	78.4	77.0	77.7	75.4	68.8
400	90.6	89.6	89.8	88.6	88.4	85.1	80.6	81.2	80.7	75.5	75.7	76.7	76.4	76.2	75.9	74.6	75.2	72.9	66.3
500	88.0	87.0	87.2	85.9	85.7	82.4	77.9	78.5	78.0	72.8	73.1	74.1	74.0	73.8	73.3	71.9	72.5	70.3	63.7
630	85.3	84.3	84.3	83.0	82.8	79.5	75.1	75.6	75.1	70.0	70.3	71.3	71.5	71.3	70.5	69.2	69.8	67.6	60.8
800	82.4	81.4	81.2	79.9	79.7	76.5	72.1	72.5	72.1	67.0	67.3	68.3	68.9	68.8	67.6	66.3	66.8	65.0	57.8
1000	79.3	78.2	78.0	76.8	76.4	73.2	68.8	69.3	68.9	63.7	64.1	65.1	66.2	66.0	64.8	63.1	63.6	62.1	54.7
1250	75.9	74.9	74.5	73.4	72.8	69.6	65.2	65.6	65.3	60.0	60.5	61.8	63.4	63.2	61.7	60.1	60.0	59.2	51.0
1600	72.4	71.2	70.9	69.7	68.8	65.7	61.5	61.5	61.2	55.8	57.0	58.5	60.3	60.1	58.5	56.8	56.4	55.8	47.4
2000	68.7	67.3	67.1	65.5	64.6	61.9	57.6	56.8	56.7	51.0	53.3	54.9	56.9	56.6	54.8	53.1	52.5	52.2	43.0
2500	64.8	63.2	63.1	61.1	60.5	57.7	53.3	51.4	52.1	45.9	48.7	50.4	52.6	52.2	50.2	48.3	47.7	47.4	38.1
3150	60.3	58.6	58.6	56.5	55.9	53.1	48.3	45.9	46.8	40.4	43.2	45.2	47.8	47.3	44.9	42.9	42.1	42.1	31.7
4000	55.2	53.5	53.5	51.2	50.6	47.3	42.1	39.2	40.4	32.6	36.2	38.5	41.9	41.0	38.7	36.2	35.5	35.5	23.4
5000	49.6	47.4	47.8	44.7	43.9	40.5	34.5	30.6	32.4	21.1	26.7	30.9	34.7	34.4	32.1	29.4	27.9	27.0	14.1
6300	42.5	40.0	40.6	37.3	36.0	32.1	24.5	15.1	22.0	9.7	14.4	21.2	27.2	26.4	21.9	19.1	15.7	17.8	4.9
8000	34.9	33.6	32.8	28.5	26.7	20.8	14.4		11.6		2.0	13.4	20.1	19.2	13.0	6.9	3.4	7.8	
10000	25.9	24.9	21.7	13.3	17.4	9.5	4.4		1.1			5.6	12.6	8.7	4.1				
12500	11.6	12.0	7.1		8.2								5.2						
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
IDLE, 50% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 01
AIRCRAFT CODE 046
OPERATION CODE 02013
PROFILE VERSION A
06 APR 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	97.6	96.8	98.4	97.4	97.8	94.5	89.8	91.4	90.0	85.5	84.5	85.8	83.8	83.6	84.3	83.4	84.1	81.3	74.7
250	95.5	94.5	96.1	95.0	95.4	92.1	87.4	89.0	87.7	83.1	82.2	83.5	81.6	81.3	82.0	81.1	81.7	78.9	72.4
315	93.1	92.1	93.6	92.6	93.0	89.7	85.0	86.6	85.2	80.7	79.8	81.1	79.4	79.1	79.6	78.7	79.3	76.5	70.0
400	90.6	89.6	91.1	90.0	90.4	87.2	82.5	84.0	82.7	78.2	77.3	78.5	77.0	76.8	77.1	76.2	76.8	74.0	67.5
500	88.0	87.0	88.4	87.3	87.7	84.5	79.8	81.3	80.0	75.5	74.6	75.9	74.7	74.4	74.5	73.6	74.2	71.4	64.8
630	85.3	84.3	85.6	84.4	84.8	81.6	77.0	78.5	77.2	72.7	71.8	73.1	72.2	71.8	71.7	70.9	71.4	68.8	62.0
800	82.4	81.4	82.5	81.4	81.8	78.6	73.9	75.4	74.1	69.7	68.8	70.1	69.6	69.3	68.8	67.9	68.4	66.2	59.0
1000	79.3	78.2	79.2	78.2	78.4	75.3	70.7	72.1	70.9	66.4	65.6	66.9	66.9	66.5	66.0	64.8	65.2	63.3	55.8
1250	75.9	74.9	75.7	74.8	74.8	71.7	67.1	68.4	67.3	62.7	62.0	63.6	64.0	63.7	62.9	61.8	61.7	60.3	52.2
1600	72.4	71.2	72.1	71.1	70.8	67.7	63.4	64.4	63.3	58.5	58.5	60.4	61.0	60.6	59.7	58.4	58.0	56.9	48.6
2000	68.7	67.3	68.4	66.9	66.6	63.9	59.5	59.6	58.7	53.7	54.8	56.7	57.6	57.1	56.0	54.8	54.1	53.3	44.2
2500	64.8	63.2	64.4	62.5	62.5	59.8	55.2	54.3	54.1	48.6	50.2	52.3	53.3	52.8	51.5	50.0	49.3	48.6	39.3
3150	60.3	58.6	59.8	57.9	57.9	55.1	50.2	48.8	48.8	43.1	44.7	47.0	48.5	47.8	46.1	44.6	43.7	43.3	32.9
4000	55.2	53.5	54.5	52.4	52.2	48.9	43.6	41.5	42.1	34.8	37.5	40.0	42.4	41.4	39.7	37.5	36.8	36.4	24.3
5000	49.6	47.4	48.5	45.6	45.1	41.7	35.7	32.3	33.6	22.8	27.7	32.0	35.1	34.7	32.9	30.4	28.9	27.7	14.8
6300	42.5	40.0	41.1	37.8	36.8	32.9	25.2	16.3	22.8	10.8	15.0	21.9	27.5	26.6	22.4	19.7	16.3	18.2	5.3
8000	34.9	33.6	33.1	28.8	27.1	21.2	14.8	.3	12.0		2.3	13.8	20.2	19.3	13.3	7.2	3.7	8.1	
10000	25.9	24.9	21.7	13.3	17.4	9.5	4.4		1.1			5.6	12.6	8.7	4.1				
12500	11.6	12.0	7.1		8.2								5.2						
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
IDLE, 50% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 01
AIRCRAFT CODE 046
OPERATION CODE 02013
PROFILE VERSION A
06 APR 76
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	84.1	82.6	82.7	81.3	80.7	77.2	72.5	72.3	72.0	67.0	68.0	69.1	70.3	70.0	68.9	67.3	67.2	66.1	59.7
250	81.8	80.3	80.4	79.0	78.4	74.9	70.3	70.0	69.8	64.8	65.8	66.9	68.3	67.9	66.8	65.2	65.1	64.0	57.7
315	79.5	78.0	78.1	76.6	76.0	72.6	68.0	67.7	67.5	62.6	63.7	64.8	66.2	65.8	64.7	63.0	62.9	61.9	55.5
400	77.1	75.6	75.7	74.2	73.5	70.2	65.7	65.3	65.2	60.3	61.4	62.5	64.1	63.7	62.5	60.8	60.7	59.7	53.4
500	74.7	73.1	73.2	71.7	71.0	67.7	63.3	62.8	62.7	57.9	59.1	60.2	61.9	61.5	60.2	58.6	58.4	57.5	51.2
630	72.1	70.5	70.6	69.0	68.3	65.1	60.7	60.1	60.2	55.4	56.7	57.9	59.6	59.2	57.9	56.2	56.0	55.2	48.9
800	69.5	67.8	67.9	66.3	65.5	62.4	58.1	57.4	57.5	52.8	54.2	55.4	57.4	56.9	55.5	53.8	53.5	52.9	46.5
1000	66.7	65.0	65.1	63.4	62.6	59.6	55.4	54.5	54.7	50.1	51.6	52.9	55.0	54.5	53.0	51.3	51.8	50.4	44.1
1250	63.8	62.1	62.1	60.4	59.6	56.6	52.5	51.3	51.8	47.2	48.8	50.2	52.5	52.0	50.4	48.7	48.3	47.9	41.4
1600	60.8	59.1	59.1	57.2	56.3	53.5	49.4	48.1	48.7	44.1	45.8	47.4	49.9	49.3	47.7	46.0	45.5	45.2	38.7
2000	57.6	55.9	55.8	53.8	52.9	50.3	46.2	44.6	45.5	40.9	42.8	44.5	47.2	46.6	44.8	43.1	42.7	42.4	35.9
2500	54.3	52.5	52.4	50.3	49.3	46.8	42.7	40.8	42.0	37.3	39.3	41.2	44.0	43.4	41.7	39.9	39.5	39.3	32.8
3150	50.7	48.9	48.8	46.5	45.5	43.1	38.9	36.9	38.2	33.5	35.5	37.7	40.6	39.9	38.3	36.5	36.1	35.8	29.5
4000	46.8	45.1	44.8	42.4	41.4	39.1	34.9	32.6	34.2	29.5	31.5	33.7	36.8	36.1	34.5	32.7	32.3	32.0	25.7
5000	42.5	40.9	40.5	38.0	36.9	34.8	30.5	28.1	29.9	25.1	27.1	29.4	32.5	31.8	30.4	28.6	28.1	27.8	21.5
6300	37.8	36.2	35.7	33.3	32.0	30.1	25.7	23.3	25.3	20.5	22.5	25.0	28.1	27.4	26.0	24.2	23.7	23.3	17.1
8000	33.0	31.7	31.0	28.4	27.1	25.4	21.2	19.0	21.1	16.7	18.7	21.3	24.4	23.7	22.1	20.4	19.9	19.6	13.5
10000	27.9	26.9	25.9	23.2	21.9	20.4	16.5	14.6	16.7	12.6	14.8	17.4	20.5	19.8	18.0	16.2	15.8	15.7	9.6
12500	22.4	21.7	20.5	17.7	16.4	15.1	11.6	10.1	12.1	8.4	10.7	13.2	16.2	15.6	13.5	11.8	11.3	11.4	5.3
16000	16.5	16.2	14.8	11.8	10.7	9.6	6.6	5.6	7.3	4.0	6.3	8.7	11.6	10.9	8.6	7.0	6.6	6.7	.8
20000	10.1	10.1	8.8	5.7	4.8	3.8	1.6	1.1	2.3		1.8	3.9	6.5	6.0	3.5	2.1	1.6	1.8	
25000	3.3	3.6	2.5										1.1	.7					

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
IDLE, 50% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 01
AIRCRAFT CODE 046
OPERATION CODE 02013
PROFILE VERSION A
06 APR 76
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	84.1	82.6	84.0	82.7	82.7	79.2	74.4	75.2	74.1	69.7	69.5	70.9	71.0	70.5	70.1	68.9	68.9	67.3	60.9
250	81.8	80.3	81.7	80.4	80.4	77.0	72.2	72.9	71.9	67.6	67.4	68.7	69.0	68.4	68.3	66.8	66.7	65.2	58.8
315	79.5	78.0	79.3	78.1	78.0	74.7	69.9	70.6	69.6	65.3	65.2	66.6	66.9	66.3	65.9	64.7	64.5	63.1	56.7
400	77.1	75.6	76.9	75.6	75.5	72.3	67.6	68.2	67.2	63.1	63.0	64.4	64.7	64.2	63.7	62.5	62.3	60.9	54.6
500	74.7	73.1	74.4	73.1	73.0	69.8	65.1	65.7	64.8	60.7	60.6	62.1	62.6	62.0	61.4	60.2	60.0	58.7	52.3
630	72.1	70.5	71.8	70.5	70.3	67.2	62.6	63.0	62.2	58.1	58.2	59.7	60.3	59.7	59.1	57.9	57.6	56.4	50.0
800	69.5	67.8	69.1	67.7	67.6	64.5	60.0	60.3	59.5	55.5	55.7	57.2	58.0	57.4	56.7	55.5	55.2	54.0	47.7
1000	66.7	65.0	66.3	64.9	64.6	61.7	57.3	57.3	56.8	52.8	53.1	54.7	55.7	55.0	54.3	53.0	52.6	51.6	45.2
1250	63.8	62.1	63.4	61.8	61.6	58.7	54.3	54.2	53.8	49.9	50.3	52.0	53.2	52.5	51.6	50.4	49.9	49.0	42.6
1600	60.8	59.1	60.3	58.6	58.3	55.6	51.3	50.9	50.7	46.8	47.4	49.2	50.5	49.8	48.9	47.6	47.2	46.4	39.9
2000	57.6	55.9	57.1	55.3	54.9	52.3	48.1	47.5	47.5	43.6	44.3	46.3	47.8	47.1	46.1	44.9	44.3	43.6	37.1
2500	54.3	52.5	53.7	51.7	51.3	48.9	44.6	43.7	44.0	40.1	40.9	43.1	44.7	43.9	42.9	41.6	41.1	40.5	34.0
3150	50.7	48.9	50.0	47.9	47.5	45.2	40.8	39.7	40.3	36.3	37.1	39.5	41.3	40.4	39.5	38.2	37.7	37.0	30.7
4000	46.8	45.1	45.8	43.6	43.0	40.8	36.4	34.9	35.9	31.6	32.7	35.2	37.3	36.5	35.5	34.1	33.6	32.9	26.7
5000	42.5	40.8	41.2	38.9	38.1	36.1	31.6	29.8	31.1	26.7	28.0	30.5	32.9	32.1	31.1	29.6	29.1	28.5	22.2
6300	37.8	36.2	36.2	33.8	32.8	30.9	26.5	24.5	26.1	21.6	23.1	25.7	28.3	27.6	26.5	24.9	24.4	23.8	17.6
8000	33.0	31.7	31.2	28.7	27.5	25.8	21.6	19.6	21.5	17.2	19.1	21.7	24.6	23.8	22.4	20.7	20.2	19.9	13.7
10000	27.9	26.9	25.9	23.2	21.9	20.4	16.5	14.6	16.7	12.6	14.8	17.4	20.5	19.8	18.0	16.2	15.8	15.7	9.6
12500	22.4	21.7	20.5	17.7	16.4	15.1	11.6	10.1	12.1	8.4	10.7	13.2	16.2	15.6	13.5	11.8	11.3	11.4	5.3
16000	16.5	16.2	14.8	11.8	10.7	9.6	6.6	5.6	7.3	4.0	6.3	8.7	11.6	10.9	8.6	7.0	6.6	6.7	.8
20000	10.1	10.1	8.8	5.7	4.8	3.8	1.6	1.1	2.3		1.8	3.9	6.5	6.0	3.5	2.1	1.6	1.8	
25000	3.3	3.6	2.5										1.1	.7					

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
IDLE, 50% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 01
AIRCRAFT CODE 046
OPERATION CODE 02013
PROFILE VERSION A
06 APR 76
PAGE J1

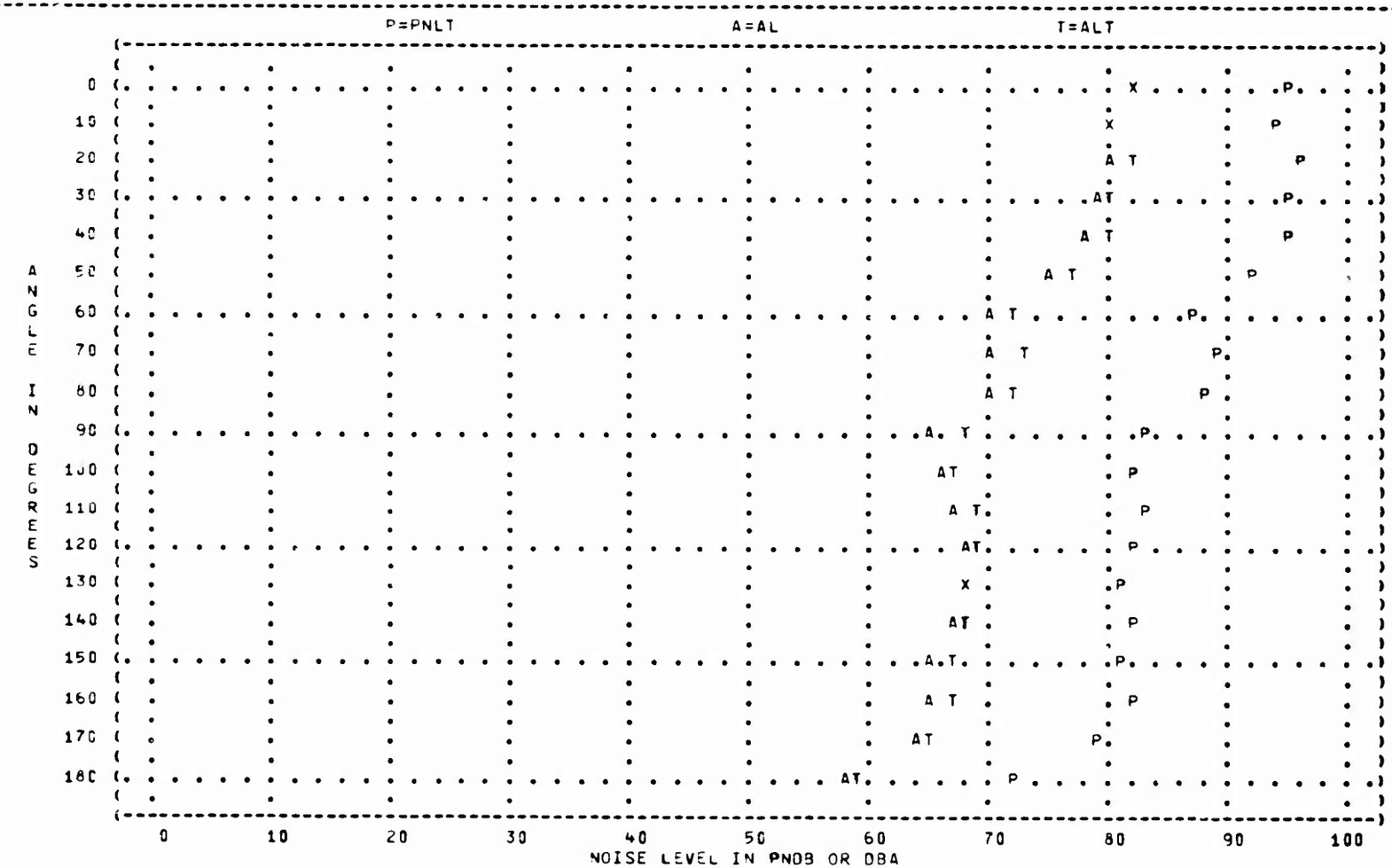


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 02
AIRCRAFT CODE 046
OPERATION CODE 02019
PROFILE VERSION A
06 APR 76
PAGE C2

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	61	60	62	63	63	63	63	63	62	64	64	66	71	73	77	78	77	71	51
63	63	62	64	64	66	65	65	66	65	66	66	67	70	74	78	79	79	68	48
80	65	66	66	67	65	68	68	67	66	68	68	69	73	77	80	81	80	63	43
100	67	69	68	68	67	69	67	68	69	71	71	72	74	78	82	84	81	62	42
125	71	72	72	72	71	72	71	71	73	74	73	74	76	80	84	87	82	59	39
160	79	78	79	79	77	78	78	78	80	79	80	81	82	82	84	87	83	59	39
200	75	75	76	77	76	77	76	77	77	77	78	80	81	82	80	86	82	57	37
250	75	77	79	80	79	78	78	77	78	77	76	77	79	81	80	82	78	56	36
315	74	76	77	76	77	76	76	75	75	75	74	76	79	80	80	80	76	52	32
400	74	76	75	76	75	72	74	72	74	72	72	74	76	77	77	76	73	50	30
500	70	70	72	71	70	67	68	69	70	70	69	71	73	75	76	75	71	48	28
630	72	71	72	72	71	67	68	69	70	70	66	69	71	73	75	73	69	47	27
800	72	70	70	71	69	66	67	68	69	68	66	67	69	71	73	71	66	45	25
1000	69	69	69	68	65	65	65	66	68	67	64	65	68	70	72	70	64	42	22
1250	69	69	69	68	65	64	65	67	66	66	61	62	63	69	69	66	61	39	19
1600	72	71	71	69	68	67	64	67	66	68	61	64	63	69	68	66	60	40	20
2000	76	75	74	72	70	70	65	67	66	67	60	64	63	68	66	64	59	40	20
2500	76	75	73	72	70	68	64	67	66	66	59	64	61	67	64	62	59	39	19
3150	72	71	70	70	68	67	63	67	66	67	60	64	60	64	62	62	58	38	18
4000	71	71	70	70	67	67	63	65	65	65	56	62	58	63	60	60	56	35	15
5000	75	76	75	73	72	70	65	66	66	63	56	59	53	57	59	57	56	36	16
6300	74	74	73	73	71	70	65	66	65	63	54	57	51	55	57	56	55	33	13
8000	69	68	67	66	64	62	58	59	59	59	49	55	48	54	54	53	50	27<	7
10000	69	70	69	67	65	63	58	59	59	57	49	54	46	51	54	50	49	21<	1
OVERALL	87	87	87	87	86	85	85	85	86	85	85	86	88	90	91	94	90	74	54

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 02
AIRCRAFT CODE 046
OPERATION CODE 02019
PROFILE VERSION A
06 APR 76
PAGE 02

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	101.3	101.3	101.1	100.0	98.3	97.3	94.3	95.8	95.8	95.9	92.3	94.6	95.0	97.6	97.9	99.3	95.4	72.3	48.4
250	99.1	99.0	98.7	97.7	95.9	94.9	92.1	93.5	93.5	93.6	90.1	92.4	92.9	95.5	95.8	97.2	93.3	70.0	45.6
315	96.7	96.5	96.3	95.3	93.5	92.5	89.9	91.2	91.2	91.3	87.9	90.2	90.7	93.3	93.6	95.0	91.1	67.7	42.6
400	94.3	94.0	93.8	92.7	91.0	90.0	87.5	88.8	88.8	88.9	85.6	87.9	88.4	91.0	91.3	92.8	88.8	65.3	38.8
500	91.6	91.3	91.1	90.1	88.3	87.3	85.0	86.2	86.2	86.4	83.0	85.3	86.0	88.6	89.0	90.4	86.3	62.8	34.5
630	89.1	88.6	88.2	87.4	85.6	84.4	82.3	83.5	83.5	83.7	80.3	82.6	83.6	86.1	86.6	87.8	83.6	60.0	28.1
800	86.3	85.8	85.4	84.6	82.8	81.5	79.6	80.6	80.7	80.8	77.5	79.9	81.1	83.5	84.0	85.1	80.8	56.9	22.9
1000	83.2	82.8	82.4	81.5	79.8	78.5	76.8	77.6	77.7	77.8	74.6	77.2	78.4	80.8	81.3	82.1	77.8	53.5	13.1
1250	80.0	79.6	79.1	78.3	76.5	75.4	73.7	74.4	74.8	74.6	71.6	74.0	75.4	77.8	78.3	78.8	74.5	49.8	3.4
1600	76.6	76.1	75.8	74.9	73.1	72.0	70.7	71.0	71.7	71.0	68.6	71.0	72.3	74.7	75.2	75.3	71.1	46.1	
2000	73.0	72.3	72.1	71.1	69.7	68.3	67.5	67.5	68.5	67.8	65.4	67.8	69.1	71.6	72.0	71.6	67.8	41.6	
2500	69.0	68.3	68.2	67.1	65.6	64.3	63.4	63.5	64.5	63.7	61.4	63.8	65.2	67.6	68.1	67.7	63.7	35.1	
3150	64.6	63.8	63.8	62.6	61.1	59.7	58.8	58.9	60.0	59.2	56.8	59.3	60.7	63.2	63.8	63.5	59.0	26.2	
4000	59.7	58.9	58.8	57.6	56.0	54.5	53.6	54.1	54.8	54.4	51.3	54.1	55.6	58.3	59.0	58.6	53.8	16.6	
5000	54.1	53.3	53.2	51.9	50.2	48.1	47.4	48.3	49.2	48.8	45.6	48.5	50.3	53.1	53.9	53.3	48.3	6.9	
6300	47.5	46.4	46.4	45.3	44.4	41.2	41.0	42.5	43.3	42.9	39.5	42.5	44.3	47.3	48.4	47.6	42.0		
8000	40.8	39.8	40.8	40.5	38.8	35.5	35.2	37.0	38.0	37.2	34.3	37.5	39.7	42.7	43.6	43.0	37.1		
10000	34.2	33.9	34.7	34.4	32.3	27.2	29.1	30.0	31.5	31.0	27.2	31.5	34.0	37.1	38.7	37.9	31.6		
12500	25.5	26.1	26.4	26.4	24.3	19.3	21.4	20.7	22.3	21.9	18.8	23.9	27.3	31.2	32.1	32.6	23.4		
16000	16.2	16.3	16.0	16.4	15.2	7.1	9.3	7.0	13.4	10.6	7.0	13.2	18.9	22.1	24.6	23.9	12.7		
20000	6.9	5.6	5.5	6.3	6.1				4.7			2.4	10.4	11.1	12.7	10.0	1.9		
25000													1.9	.1	.9				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 02
AIRCRAFT CODE 046
OPERATION CODE 02019
PROFILE VERSION A
06 APR 76
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DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	102.3	102.5	102.3	101.5	99.6	98.6	95.0	96.4	96.8	96.4	93.0	95.2	95.0	97.6	97.9	99.3	95.4	72.3	48.4
250	100.0	100.1	100.0	99.1	97.3	96.3	92.8	94.2	94.6	94.2	90.9	93.0	92.9	95.5	95.8	97.2	93.3	70.0	45.6
315	97.7	97.7	97.5	96.7	94.9	93.8	90.6	91.8	92.2	91.9	88.7	90.8	90.7	93.3	93.6	95.0	91.1	67.7	42.6
400	95.2	95.1	95.0	94.2	92.3	91.3	88.3	89.4	89.8	89.4	86.3	88.5	88.4	91.0	91.3	92.8	88.8	65.3	38.8
500	92.7	92.5	92.3	91.5	89.7	88.6	85.8	86.9	87.3	86.9	83.8	86.0	86.0	88.6	89.0	90.4	86.3	62.8	34.5
630	90.0	89.8	89.4	88.8	86.9	85.7	83.0	84.2	84.6	84.2	81.1	83.2	83.6	86.1	86.6	87.8	83.6	60.0	28.1
800	87.2	87.0	86.6	86.0	84.1	82.8	80.3	81.3	81.7	81.4	78.2	80.5	81.1	83.5	84.0	85.1	80.8	56.9	22.9
1000	84.2	84.0	83.6	83.0	81.1	79.9	77.5	78.3	78.8	78.4	75.4	77.8	78.4	80.8	81.3	82.1	77.8	53.5	13.1
1250	80.9	80.7	80.3	79.7	77.9	76.7	74.5	75.1	75.8	75.1	72.4	74.7	75.4	77.8	78.3	78.8	74.5	49.8	3.4
1600	77.5	77.3	77.0	76.3	74.5	73.3	71.4	71.7	72.8	71.6	69.4	71.6	72.3	74.7	75.2	75.3	71.1	46.1	
2000	73.9	73.5	73.4	72.5	71.0	69.7	68.2	68.2	69.6	68.3	66.2	68.4	69.1	71.6	72.0	71.6	67.8	41.6	
2500	69.9	69.5	69.4	68.5	67.0	65.6	64.2	64.2	65.6	64.3	62.2	64.4	65.2	67.6	68.1	67.7	63.7	35.1	
3150	65.5	65.0	65.0	64.0	62.5	61.0	59.6	59.6	61.0	59.8	57.5	59.9	60.7	63.2	63.8	63.5	59.0	26.2	
4000	60.4	59.8	59.8	58.7	57.1	55.5	54.2	54.7	55.7	54.8	51.9	54.5	55.6	58.3	59.0	58.6	53.8	16.6	
5000	54.7	54.0	53.9	52.8	51.0	48.9	47.8	48.7	49.8	49.1	46.1	48.9	50.3	53.1	53.9	53.3	48.3	6.9	
6300	47.9	46.9	46.9	46.5	44.9	41.8	41.3	42.7	43.8	43.1	39.8	42.4	44.3	47.3	48.4	47.6	42.0		
8000	41.0	40.1	41.0	40.9	39.0	35.7	35.4	37.1	38.2	37.3	34.5	37.7	39.7	42.7	43.6	43.0	37.1		
10000	34.2	33.9	34.7	34.4	32.3	27.2	29.1	30.0	31.5	31.0	27.2	31.5	34.0	37.1	38.7	37.9	31.6		
12500	25.5	26.1	26.4	26.4	24.3	19.3	21.4	20.7	22.0	21.9	18.8	23.9	27.3	31.2	32.1	32.6	23.4		
16000	16.2	16.3	16.0	16.4	15.2	7.1	9.3	7.0	13.4	10.6	7.0	13.2	18.9	22.1	24.6	23.9	12.7		
20000	6.9	6.6	5.5	6.3	6.1				4.7			2.4	10.4	11.1	12.7	10.0	1.9		
25000													1.9	.1	.9				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 02
AIRCRAFT CODE 046
OPERATION CODE 02019
PROFILE VERSION A
06 APR 76
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	87.2	86.7	86.4	85.5	83.8	82.6	80.6	81.7	81.9	81.6	78.6	80.9	82.1	84.3	84.7	84.9	80.7	58.5	38.5
250	84.9	84.4	84.1	83.2	81.6	80.3	78.5	79.5	79.7	79.5	76.6	78.8	80.1	82.2	82.6	82.9	78.7	56.4	36.4
315	82.5	82.1	81.8	81.0	79.3	78.1	76.3	77.3	77.6	77.3	74.5	76.7	78.0	80.2	80.5	80.8	76.6	54.4	34.4
400	80.1	79.7	79.4	78.6	77.0	75.7	74.1	75.1	75.3	75.1	72.4	74.5	75.9	78.0	78.4	78.7	74.5	52.2	32.2
500	77.7	77.2	77.0	76.2	74.6	73.3	71.8	72.7	73.1	72.8	70.1	72.3	73.7	75.8	76.2	76.5	72.3	50.0	30.0
630	75.1	74.6	74.5	73.7	72.1	70.8	69.5	70.3	70.7	70.4	67.8	70.0	71.4	73.5	74.0	74.1	69.9	47.7	27.7
800	72.5	72.0	71.9	71.1	69.6	68.2	67.0	67.9	68.2	68.0	65.4	67.6	69.1	71.2	71.7	71.7	67.5	45.4	25.4
1000	69.8	69.3	69.2	68.4	66.9	65.5	64.5	65.3	65.7	65.5	62.9	65.1	66.7	68.8	69.3	69.2	65.0	42.9	22.9
1250	66.9	66.4	66.3	65.6	64.2	62.6	61.8	62.6	63.1	62.8	60.3	62.5	64.1	66.2	66.8	66.5	62.3	40.3	20.3
1600	64.0	63.5	63.4	62.7	61.3	59.6	59.1	59.8	60.3	60.0	57.5	59.7	61.4	63.5	64.1	63.6	59.5	37.4	17.4
2000	60.9	60.4	60.4	59.8	58.3	56.5	56.2	56.8	57.5	57.1	54.6	56.8	58.6	60.6	61.4	60.7	56.5	34.5	14.5
2500	57.5	57.0	57.0	56.5	55.0	53.1	52.9	53.6	54.3	53.9	51.4	53.6	55.4	57.4	58.3	57.4	53.2	31.1	11.1
3150	53.9	53.3	53.5	52.9	51.4	49.4	49.3	50.1	50.8	50.4	47.8	50.0	51.8	53.9	54.9	53.8	49.6	27.5	7.5
4000	50.0	49.3	49.5	49.0	47.5	45.3	45.4	46.2	47.0	46.6	43.9	46.1	47.9	50.1	51.2	49.9	45.6	23.5	3.5
5000	45.6	44.9	45.2	44.7	43.1	40.9	41.1	42.0	42.8	42.4	39.6	41.8	43.6	45.8	47.0	45.6	41.2	19.2	
6300	40.9	40.2	40.6	40.1	38.5	36.2	36.5	37.5	38.4	38.0	35.1	37.3	39.2	41.3	42.6	41.2	36.8	14.8	
8000	36.6	36.0	36.4	36.1	34.6	32.2	32.7	33.5	34.5	34.0	31.4	33.6	35.6	37.5	38.9	37.6	33.2	11.2	
10000	32.0	31.5	32.0	31.9	30.5	27.9	28.0	29.3	30.3	29.8	27.5	29.7	31.7	33.5	34.9	33.8	29.5	7.5	
12500	27.2	26.8	27.4	27.4	26.2	23.5	24.3	24.7	25.9	25.3	23.3	25.5	27.5	29.2	30.5	29.7	25.4	3.6	
16000	22.1	21.8	22.5	22.5	21.4	18.9	19.6	19.9	21.0	20.4	18.8	20.9	22.9	24.6	25.8	25.3	21.1		
20000	16.6	16.5	17.2	17.3	16.4	14.0	14.6	14.7	15.9	15.3	14.0	16.0	18.0	19.6	20.7	20.7	16.6		
25000	10.7	10.9	11.6	11.8	10.9	8.9	9.4	9.3	10.4	9.8	8.9	10.9	12.8	14.4	15.3	16.1	12.0		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 02
AIRCRAFT CODE 046
OPERATION CODE 02019
PROFILE VERSION A
06 APR 76
PAGE 02

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	88.1	87.9	87.6	86.9	85.1	83.9	81.3	82.3	83.0	82.2	79.4	81.5	82.1	84.3	84.7	84.9	80.7	58.5	38.5
250	85.8	85.6	85.4	84.7	82.9	81.7	79.2	80.2	80.6	80.0	77.3	79.4	80.1	82.2	82.6	82.9	78.7	56.4	36.4
315	83.5	83.3	83.0	82.4	80.6	79.4	77.0	78.0	78.6	77.9	75.2	77.3	78.0	80.2	80.5	80.8	76.6	54.4	34.4
400	81.1	80.9	80.7	80.0	78.3	77.1	74.8	75.7	76.4	75.6	73.1	75.1	75.9	78.0	78.4	78.7	74.5	52.2	32.2
500	78.6	78.4	78.2	77.6	75.9	74.6	72.5	73.4	74.1	73.4	70.9	72.9	73.7	75.8	76.2	76.5	72.3	50.0	30.0
630	76.3	75.8	75.7	75.1	73.5	72.1	70.2	71.0	71.7	71.0	68.6	70.6	71.4	73.5	74.0	74.1	69.9	47.7	27.7
800	73.4	73.2	73.1	72.5	70.9	69.5	67.7	68.5	69.3	68.6	66.2	68.2	69.1	71.2	71.7	71.7	67.5	45.4	25.4
1000	70.7	70.5	70.4	69.9	68.3	66.8	65.2	66.0	66.8	66.0	63.7	65.7	66.7	68.8	69.3	69.2	65.0	42.9	22.9
1250	67.9	67.6	67.5	67.1	65.5	64.0	62.6	63.3	64.1	63.4	61.0	63.1	64.1	66.2	66.8	66.5	62.3	40.3	20.3
1600	64.9	64.6	64.6	64.2	62.6	61.0	59.8	60.4	61.4	60.6	58.3	60.3	61.4	63.5	64.1	63.6	59.5	37.4	17.4
2000	61.8	61.6	61.6	61.2	59.7	57.9	56.9	57.5	58.5	57.7	55.4	57.5	58.6	60.6	61.4	60.7	56.5	34.5	14.5
2500	58.4	58.1	58.3	57.9	56.4	54.4	53.6	54.2	55.3	54.5	52.1	54.2	55.4	57.4	58.3	57.4	53.2	31.1	11.1
3150	54.8	54.5	54.7	54.3	52.8	50.7	50.0	50.7	51.9	51.0	48.5	50.6	51.8	53.9	54.9	53.8	49.6	27.5	7.5
4000	50.7	50.3	50.5	50.1	48.6	46.4	45.9	46.8	47.9	47.1	44.5	46.6	47.9	50.1	51.2	49.9	45.6	23.5	3.5
5000	46.2	45.6	45.9	45.5	43.9	41.7	41.5	42.4	43.5	42.8	40.0	42.2	43.6	45.8	47.0	45.6	41.2	19.2	
6300	41.3	40.7	41.0	40.7	39.0	36.7	36.8	37.8	38.8	38.2	35.4	37.6	39.2	41.3	42.6	41.2	36.8	14.8	
8000	36.7	36.2	36.6	36.4	34.9	32.4	32.9	33.7	34.7	34.1	31.6	33.8	35.6	37.5	38.9	37.6	33.2	11.2	
10000	32.0	31.5	32.0	31.9	30.5	27.9	28.6	29.3	30.3	29.8	27.5	29.7	31.7	33.5	34.9	33.8	29.5	7.5	
12500	27.2	26.8	27.4	27.4	26.2	23.5	24.3	24.7	25.9	25.3	23.3	25.5	27.5	29.2	30.5	29.7	25.4	3.6	
16000	22.1	21.8	22.5	22.5	21.4	18.9	19.6	19.9	21.0	20.4	18.8	20.9	22.9	24.6	25.8	25.3	21.1		
20000	16.6	16.5	17.2	17.3	16.4	14.0	14.6	14.7	15.9	15.3	14.0	16.0	18.0	19.6	20.7	20.7	16.6		
25000	10.7	10.9	11.6	11.8	10.9	8.9	9.4	9.3	10.4	9.8	8.9	10.9	12.8	14.4	15.3	16.1	12.0		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

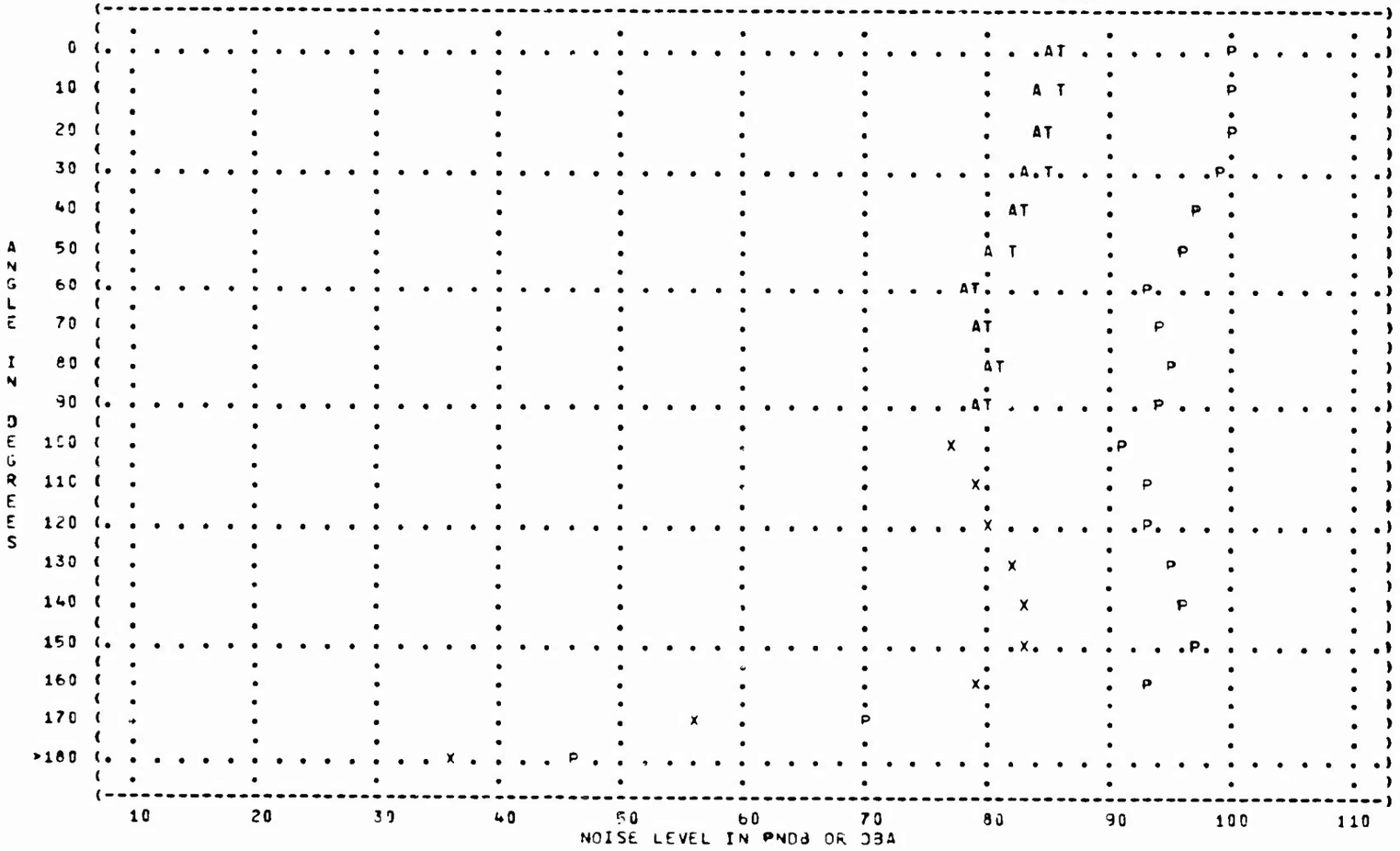
NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 02
AIRCRAFT CODE 046
OPERATION CODE 02019
PROFILE VERSION A
06 APR 76
PAGE J2

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 03
AIRCRAFT CODE 046
OPERATION CODE 02004
PROFILE VERSION A
06 APR 76
PAGE C3

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	76	75	74	77	77	77	79	80	80	80	82	84	88	94	99	100	97	83	63
63	77	77	77	77	79	80	80	80	82	83	83	86	92	96	101	102	98	81	61
80	80	79	79	80	79	81	82	82	83	85	84	88	94	99	104	104	99	77	57
100	82	81	81	83	81	83	84	84	85	88	86	90	96	102	108	105	100	77	57
125	83	83	84	84	84	86	85	86	87	89	89	93	98	104	110	106	102	79	59
160	85	85	85	86	33	86	86	87	88	89	92	96	100	103	108	109	102	79	59
200	87	87	87	86	86	86	87	87	89	90	93	98	102	103	105	107	102	75	55
250	89	89	88	88	88	88	88	88	90	91	93	96	103	105	103	107	103	76	56
315	90	92	92	89	89	87	88	89	91	92	94	98	103	106	106	107	104	75	55
400	91	93	92	91	90	88	88	88	92	92	93	97	104	103	106	107	103	76	56
500	90	92	93	92	89	86	88	88	92	91	93	96	103	104	105	106	101	76	56
630	93	92	94	94	91	87	89	89	93	93	92	96	102	103	106	105	99	75	55
800	94	92	93	93	89	86	90	89	92	92	90	96	99	101	103	104	97	74	54
1000	96	97	98	96	93	89	91	89	92	92	90	95	98	99	101	102	95	72	52
1250	93	94	96	97	95	91	93	91	92	92	88	93	95	96	99	101	93	71	51
1600	90	92	93	94	93	92	96	94	94	94	89	93	95	96	97	100	92	70	50
2000	90	90	93	93	91	91	94	96	98	95	90	93	95	95	95	98	91	68	48
2500	88	87	90	90	90	88	90	94	95	93	88	92	94	93	94	97	89	67	47
3150	86	85	88	89	89	86	89	93	93	93	87	91	93	91	92	94	87	65	45
4000	85	84	86	87	87	85	89	92	93	93	87	90	93	90	91	94	87	65	45
5000	81	79	81	82	82	80	84	87	89	89	83	87	90	87	89	93	85	61	41
6300	82	78	80	81	81	79	83	85	87	87	81	85	87	86	85	90	81	56	36
8000	79	76	76	79	79	77	81	84	85	86	79	84	87	85	84	89	81	53	33
10000	73	71	73	75	75	72	77	81	81	83	75	83	85	83	82	86	78	54	34
OVERALL	103	103	105	104	102	100	103	103	105	105	103	108	112	114	117	117	112	90	70

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 03
AIRCRAFT CODE 046
OPERATION CODE 02004
PROFILE VERSION A
06 APR 76
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	115.2	115.2	116.9	117.0	116.1	114.4	117.2	118.8	120.3	120.0	115.8	119.9	123.3	124.0	125.7	127.2	121.6	97.4	76.5
250	113.0	113.1	114.7	114.8	113.8	112.2	115.0	116.6	118.1	117.7	113.5	117.6	121.1	121.9	123.6	125.0	119.5	95.1	74.3
315	110.7	110.8	112.5	112.5	111.6	109.9	112.7	114.3	115.8	115.3	111.2	115.4	118.9	119.7	121.5	122.9	117.3	92.8	71.9
400	108.4	108.5	110.1	110.2	109.2	107.6	110.4	111.9	113.5	112.9	108.9	113.0	116.7	117.5	119.3	120.6	115.1	90.5	69.5
500	105.9	106.1	107.8	107.8	106.8	105.2	108.0	109.5	111.1	110.4	106.5	110.6	114.4	115.2	117.0	118.4	112.9	88.0	67.0
630	103.4	103.7	105.3	105.3	104.2	102.7	105.5	106.9	108.5	107.7	103.9	108.1	112.0	112.9	114.7	116.0	110.5	85.4	64.4
800	100.8	101.1	102.7	102.7	101.5	100.0	102.9	104.3	105.9	104.9	101.3	105.4	109.5	110.4	112.2	113.5	108.1	82.9	61.7
1000	98.1	98.3	100.0	100.0	98.7	97.3	100.1	101.4	103.0	102.0	98.5	102.6	106.9	107.8	109.7	111.0	105.5	80.2	58.9
1250	95.2	95.5	97.0	97.1	95.7	94.3	97.2	98.4	100.0	99.0	95.5	99.6	104.2	104.9	107.0	108.2	102.8	77.4	55.8
1600	92.3	92.5	93.9	94.0	92.6	91.2	94.1	95.2	96.8	95.7	92.3	96.4	101.3	102.0	104.2	105.4	100.0	74.5	52.3
2000	89.1	89.4	90.7	90.8	89.3	87.9	90.7	91.7	93.3	92.2	88.9	93.1	98.2	98.9	101.1	102.3	96.9	71.4	48.7
2500	85.7	86.0	87.3	87.3	85.6	84.3	87.1	87.8	89.5	88.4	85.1	89.3	94.4	95.6	97.4	98.5	93.1	67.6	44.3
3150	82.0	82.3	83.6	83.5	81.7	80.3	83.6	83.6	85.3	84.1	81.1	85.3	90.3	91.6	93.6	94.5	88.9	63.5	39.3
4000	77.9	78.3	79.6	79.3	77.5	75.8	78.7	78.9	80.6	79.4	76.6	81.0	85.9	87.2	89.3	90.1	84.4	59.0	33.9
5000	73.5	73.9	75.2	74.8	72.8	70.9	73.9	73.6	75.4	74.3	71.8	76.4	81.2	82.5	84.7	85.4	79.7	53.7	28.0
6300	68.8	69.2	70.5	69.9	67.8	65.5	68.5	67.9	69.6	68.8	66.7	71.4	76.2	77.6	79.8	80.5	74.8	48.2	15.0
8000	64.1	64.6	65.9	64.8	62.7	60.1	63.0	62.2	64.0	63.8	62.6	67.0	72.3	73.8	75.9	76.6	71.0	43.0	4.1
10000	58.9	59.4	60.7	59.5	57.0	54.1	56.8	56.0	59.1	59.0	58.1	62.5	68.2	69.7	71.7	72.5	66.9	37.2	
12500	53.0	53.5	54.8	54.1	51.4	48.0	50.7	50.1	53.7	53.6	53.1	57.7	63.6	65.2	67.1	68.0	62.4	31.2	
16000	46.9	47.3	48.8	48.0	44.9	41.2	43.8	43.1	47.5	47.5	47.6	52.3	58.6	60.2	61.9	63.1	57.4	23.3	
20000	39.5	40.4	41.5	40.4	37.4	33.7	35.7	35.4	40.1	39.8	41.0	46.3	52.9	54.7	56.5	57.7	51.9	12.1	
25000	30.9	32.2	33.3	31.9	29.0	23.0	26.3	26.3	31.4	31.4	33.4	38.3	46.5	48.4	50.3	51.6	45.5	.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 03
AIRCRAFT CODE 046
OPERATION CODE 02004
PROFILE VERSION A
06 APR 76
PAGE 87

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	115.2	116.4	117.9	117.0	116.1	114.4	117.2	118.8	120.3	120.0	115.8	119.9	123.3	124.0	125.7	127.2	121.6	97.4	76.5
250	113.0	114.2	115.8	114.8	113.8	112.2	115.0	116.6	118.1	117.7	113.5	117.6	121.1	121.9	123.6	125.0	119.5	95.1	74.3
315	110.7	111.9	113.5	112.5	111.6	109.9	112.7	114.3	115.8	115.3	111.2	115.4	118.9	119.7	121.5	122.9	117.3	92.8	71.9
400	108.4	109.6	111.2	110.2	109.2	107.6	110.4	111.9	113.5	112.9	108.9	113.0	116.7	117.5	119.3	120.6	115.1	90.5	69.5
500	105.9	107.3	108.8	107.8	106.8	105.2	108.0	109.5	111.1	110.4	106.5	110.6	114.4	115.2	117.0	118.4	112.9	88.0	67.0
630	103.4	104.8	106.3	105.3	104.2	102.7	105.5	106.9	108.5	107.7	103.9	108.1	112.0	112.9	114.7	116.0	110.5	85.4	64.4
800	100.8	102.2	103.8	102.7	101.5	100.0	102.9	104.3	105.9	104.9	101.3	105.4	109.5	110.4	112.2	113.5	108.1	82.9	61.7
1000	98.1	99.5	101.0	100.0	98.7	97.3	100.1	101.4	103.0	102.0	98.5	102.6	106.9	107.8	109.7	111.0	105.5	80.2	58.9
1250	95.2	96.6	98.1	97.1	95.7	94.3	97.2	98.4	100.0	99.0	95.5	99.6	104.2	104.9	107.0	108.2	102.8	77.4	55.8
1600	92.3	93.6	95.0	94.0	92.6	91.2	94.1	95.2	96.8	95.7	92.3	96.4	101.3	102.0	104.2	105.4	100.0	74.5	52.3
2000	89.1	90.5	91.8	90.8	89.3	87.9	90.7	91.7	93.3	92.2	88.9	93.1	98.2	98.9	101.1	102.3	96.9	71.4	48.7
2500	85.7	87.1	88.4	87.3	85.6	84.3	87.1	87.8	89.5	88.4	85.1	89.3	94.4	95.6	97.4	98.5	93.1	67.6	44.3
3150	82.0	83.5	84.7	83.5	81.7	80.3	83.1	83.6	85.3	84.1	81.1	85.3	90.3	91.6	93.6	94.5	88.9	63.5	39.3
4000	77.9	79.2	80.4	79.3	77.5	75.8	78.7	78.9	80.6	79.4	76.6	81.0	85.9	87.2	89.3	90.1	84.4	59.0	33.9
5000	73.5	74.6	75.9	74.8	72.8	70.9	73.9	73.6	75.4	74.3	71.8	76.4	81.2	82.5	84.7	85.4	79.7	53.7	26.0
6300	68.8	69.7	71.0	69.8	67.8	65.5	68.5	67.9	69.6	68.8	66.7	71.4	76.2	77.6	79.8	80.5	74.8	48.2	15.0
8000	64.1	64.8	66.1	64.8	62.7	60.1	63.0	62.2	64.0	63.8	62.6	67.0	72.3	73.8	75.9	76.6	71.0	43.0	4.1
10000	58.9	59.4	60.7	59.5	57.0	54.1	56.8	56.0	59.1	59.0	58.1	62.5	68.2	69.7	71.7	72.5	66.9	37.2	
12500	53.0	53.5	54.8	54.1	51.4	48.0	50.7	50.1	53.7	53.6	53.1	57.7	63.6	65.2	67.1	68.0	62.4	31.2	
16000	46.9	47.3	48.8	48.0	44.9	41.2	43.8	43.1	47.5	47.3	47.6	52.3	59.6	60.2	61.9	63.1	57.4	23.3	
20000	39.5	40.4	41.5	40.4	37.4	33.7	35.7	35.4	40.1	39.8	41.0	46.3	52.9	54.7	56.5	57.7	51.9	12.1	
25000	30.9	32.2	33.3	31.9	29.0	23.0	26.3	26.3	31.4	31.4	33.4	38.9	46.5	48.4	50.3	51.6	45.5	.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 03
AIRCRAFT CODE 046
OPERATION CODE 02004
PROFILE VERSION A
06 APR 76
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NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	104.1	104.4	106.0	105.8	104.0	101.8	104.7	105.6	106.9	106.2	102.5	106.8	110.7	111.5	113.2	114.5	108.7	84.3	64.3
250	101.9	102.3	103.9	103.7	101.9	99.6	102.5	103.4	104.7	104.0	100.3	104.6	108.8	109.4	111.1	112.4	106.6	82.3	62.3
315	99.8	100.2	101.8	101.6	99.7	97.4	100.3	101.1	102.5	101.8	98.2	102.5	106.5	107.3	109.0	110.3	104.5	80.1	60.1
400	97.6	98.0	99.6	99.4	97.5	95.2	98.1	98.8	100.2	99.5	96.0	100.3	104.3	105.2	106.9	108.1	102.4	78.0	58.0
500	95.4	95.8	97.4	97.1	95.2	92.9	95.8	96.4	97.8	97.1	93.7	98.0	102.1	103.0	104.7	106.0	100.2	75.8	55.8
630	93.1	93.6	95.1	94.8	92.9	90.6	93.4	94.0	95.4	94.7	91.4	95.7	99.9	100.8	102.5	103.7	98.0	73.6	53.6
800	90.8	91.3	92.8	92.5	90.5	88.1	91.0	91.4	92.9	92.1	89.0	93.4	97.6	98.5	100.2	101.4	95.7	71.3	51.3
1000	88.4	88.9	90.4	90.0	88.0	85.6	88.4	88.7	90.3	89.5	86.6	90.9	95.2	96.2	97.9	99.1	93.4	68.9	48.9
1250	85.9	86.4	87.9	87.5	85.4	83.0	85.8	86.0	87.5	86.8	84.0	88.4	92.8	93.7	95.5	96.6	90.9	66.4	46.4
1600	83.4	83.8	85.3	84.9	82.7	80.2	83.0	83.0	84.7	84.0	81.3	85.8	90.2	91.2	93.0	94.1	88.4	63.9	43.9
2000	80.7	81.1	82.6	82.1	79.9	77.3	80.1	79.9	81.7	81.0	78.5	83.0	87.6	88.5	90.4	91.4	85.8	61.2	41.2
2500	77.8	78.2	79.6	79.2	76.9	74.2	76.9	76.5	78.4	77.8	75.5	80.0	84.7	85.6	87.5	88.5	82.7	58.3	38.3
3150	74.7	75.1	76.5	76.0	73.6	70.8	73.5	72.9	74.9	74.4	72.2	76.8	81.4	82.4	84.3	85.2	79.4	55.1	35.1
4000	71.3	71.6	73.0	72.5	69.9	67.0	69.8	69.0	71.1	70.7	68.5	73.2	77.7	78.8	80.7	81.6	75.6	51.5	31.5
5000	67.4	67.7	69.1	68.5	65.9	62.9	65.6	64.6	66.8	66.5	64.4	69.1	73.6	74.7	76.6	77.5	71.4	47.5	27.5
6300	63.2	63.4	64.9	64.2	61.5	58.3	61.0	59.8	62.2	62.0	60.0	64.7	69.2	70.3	72.3	73.1	67.0	43.1	23.1
8000	59.0	59.1	60.5	59.8	57.0	53.7	56.3	55.1	57.8	57.6	56.0	60.7	65.4	66.6	68.5	69.3	63.3	39.3	19.3
10000	54.3	54.4	55.7	54.9	52.1	48.7	51.2	50.0	53.0	52.9	51.7	56.4	61.4	62.5	64.4	65.1	59.3	35.1	15.1
12500	49.1	49.2	50.5	49.6	46.8	43.3	45.7	44.6	48.0	47.9	47.0	51.7	56.9	58.0	59.9	60.6	54.9	30.5	10.5
16000	43.3	43.4	44.6	43.8	41.0	37.6	39.8	39.0	42.5	42.4	42.0	46.5	52.0	53.1	54.9	55.6	50.2	25.4	5.4
20000	37.0	37.2	38.3	37.4	34.7	31.5	33.5	33.0	36.6	36.5	36.5	40.9	46.6	47.7	49.5	50.2	45.0	20.0	
25000	30.0	30.5	31.4	30.5	28.0	25.1	26.8	26.5	30.1	30.1	30.5	34.7	40.7	41.8	43.6	44.3	39.3	14.1	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 03
AIRCRAFT CODE 046
OPERATION CODE 02004
PROFILE VERSION A
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DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	104.1	105.6	107.1	105.8	104.0	101.8	104.7	105.6	106.9	106.2	102.5	106.8	110.7	111.5	113.2	114.5	108.7	84.3	64.3
250	101.9	103.5	105.0	103.7	101.9	99.6	102.5	103.4	104.7	104.0	100.3	104.6	108.6	109.4	111.1	112.4	106.6	82.3	62.3
315	99.8	101.3	102.8	101.6	99.7	97.4	100.3	101.1	102.5	101.8	98.2	102.5	106.5	107.3	109.0	110.3	104.5	80.1	60.1
400	97.6	99.2	100.6	99.4	97.5	95.2	98.1	98.8	100.2	99.5	96.0	100.3	104.3	105.2	106.9	108.1	102.4	78.0	58.0
500	95.4	97.0	98.4	97.1	95.2	92.9	95.8	96.4	97.8	97.1	93.7	98.0	102.1	103.0	104.7	106.0	100.2	75.8	55.8
630	93.1	94.7	96.2	94.8	92.9	90.6	93.4	94.0	95.4	94.7	91.4	95.7	99.9	100.8	102.5	103.7	98.0	73.6	53.6
800	90.8	92.4	93.8	92.5	90.5	88.1	91.0	91.4	92.9	92.1	89.0	93.4	97.6	98.5	100.2	101.4	95.7	71.3	51.3
1000	88.4	90.0	91.4	90.0	88.0	85.6	88.4	88.7	90.3	89.5	86.6	90.9	95.2	96.2	97.9	99.1	93.4	68.9	48.9
1250	85.9	87.5	88.9	87.5	85.4	83.0	85.8	86.0	87.5	86.8	84.0	88.4	92.8	93.7	95.5	96.6	90.9	66.4	46.4
1600	83.4	85.0	86.3	84.9	82.7	80.2	83.0	83.0	84.7	84.0	81.3	85.8	90.2	91.2	93.0	94.1	88.4	63.9	43.9
2000	80.7	82.3	83.6	82.1	79.9	77.3	80.1	79.9	81.7	81.0	78.5	83.0	87.6	88.5	90.4	91.4	85.8	61.2	41.2
2500	77.8	79.3	80.7	79.2	76.9	74.2	76.9	76.5	78.4	77.8	75.5	80.0	84.7	85.6	87.5	88.5	82.7	58.3	38.3
3150	74.7	76.2	77.5	76.0	73.6	70.8	73.5	72.9	74.9	74.4	72.2	76.8	81.4	82.4	84.3	85.2	79.4	55.1	35.1
4000	71.3	72.5	73.9	72.5	69.9	67.0	69.8	69.0	71.1	70.7	68.5	73.2	77.7	78.8	80.7	81.6	75.6	51.5	31.5
5000	67.4	68.4	69.8	68.5	65.9	62.9	65.6	64.6	66.8	66.5	64.4	69.1	73.6	74.7	76.6	77.5	71.4	47.5	27.5
6300	63.2	63.9	65.3	64.2	61.5	58.3	61.0	59.8	62.2	62.0	60.0	64.7	69.2	70.3	72.3	73.1	67.0	43.1	23.1
8000	59.0	59.4	60.7	59.8	57.0	53.7	56.3	55.1	57.8	57.6	56.0	60.7	65.4	66.6	68.5	69.3	63.3	39.3	19.3
10000	54.3	54.4	55.7	54.9	52.1	48.7	51.2	50.0	53.0	52.9	51.7	56.4	61.4	62.5	64.4	65.1	59.3	35.1	15.1
12500	49.1	49.2	50.5	49.6	46.8	43.3	45.7	44.6	48.0	47.9	47.0	51.7	56.9	58.0	59.9	60.6	54.9	30.5	10.5
16000	43.3	43.4	44.6	43.8	41.0	37.6	39.8	39.0	42.5	42.4	42.0	46.5	52.3	53.1	54.9	55.6	50.2	25.4	5.4
20000	37.0	37.2	38.3	37.4	34.7	31.5	33.5	33.0	36.6	36.5	36.5	40.9	46.6	47.7	49.5	50.2	45.0	20.0	
25000	30.0	30.5	31.4	30.5	28.0	25.1	26.8	26.5	30.1	30.1	30.5	34.7	40.7	41.8	43.6	44.3	39.3	14.1	

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

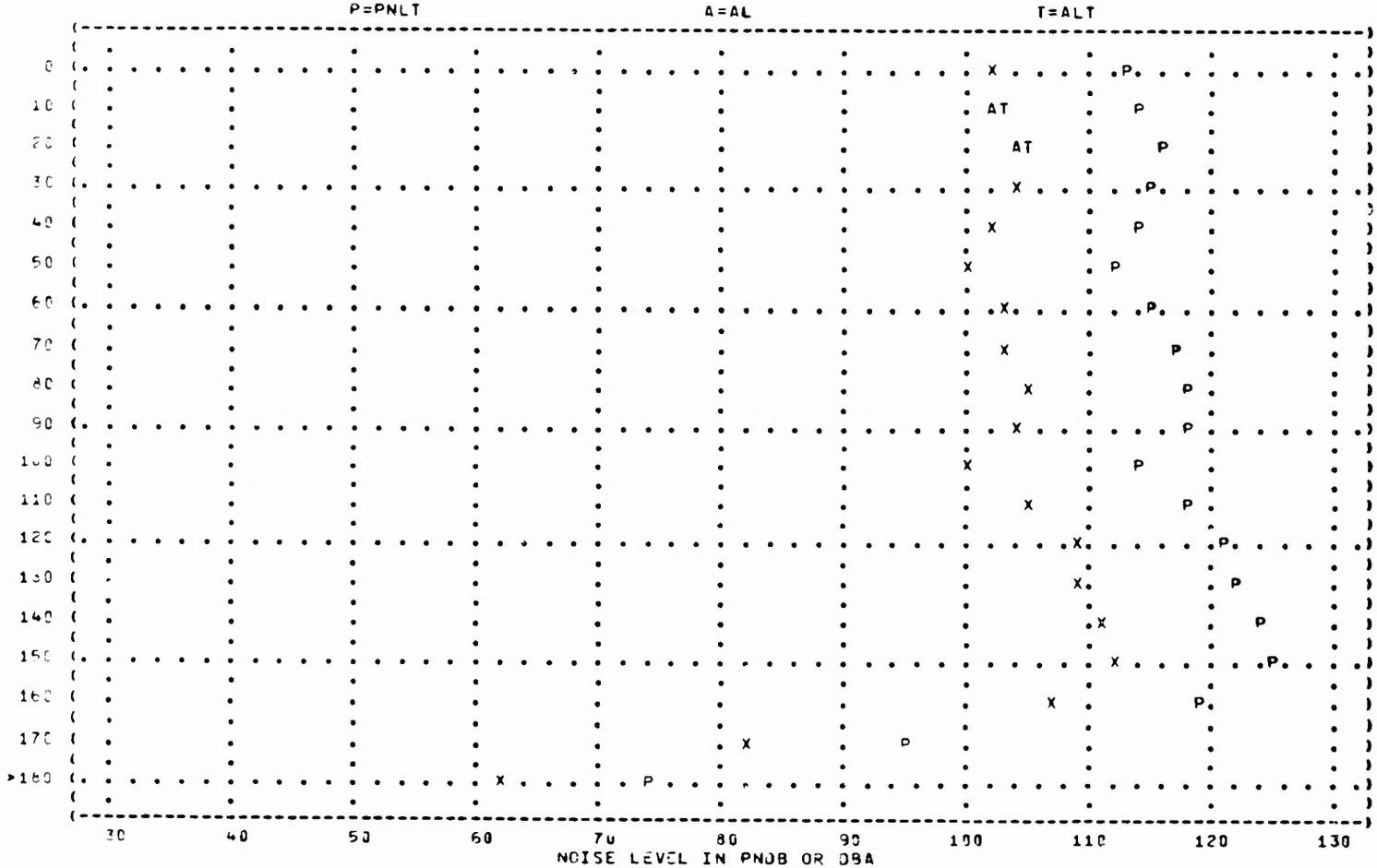
NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 03
AIRCRAFT CODE 046
OPERATION CODE 02004
PROFILE VERSION A
06 APR 76
PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
AFTERBURNER POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 04
AIRCRAFT CODE 046
OPERATION CODE 02003
PROFILE VERSION A
06 APR 76
PAGE C4

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	84	84	84	84	85	85	85	86	87	88	89	95	102	106	107	106	101	83	63
63	86	85	86	86	87	86	87	89	89	91	92	97	104	108	109	106	101	80	60
80	89	88	87	88	89	89	89	91	90	91	95	100	107	111	110	108	101	80	60
100	90	89	89	90	91	90	91	93	92	93	96	104	111	115	113	111	103	81	61
125	92	92	91	92	92	94	93	94	95	96	99	104	113	117	116	113	105	82	62
160	92	92	93	92	91	93	93	94	95	97	101	104	112	117	116	114	105	87	67
200	92	92	92	91	91	92	93	94	94	96	101	107	111	114	114	113	104	79	59
250	94	94	94	93	93	93	94	94	95	96	101	108	113	112	113	112	103	80	60
315	94	95	94	94	94	92	94	95	97	97	102	107	114	114	112	110	101	79	59
400	93	96	97	95	94	91	93	94	96	97	101	107	112	112	112	108	100	78	58
500	93	95	96	94	93	90	92	94	96	97	100	105	111	110	110	106	98	78	58
630	95	95	96	96	93	90	93	95	97	97	100	104	110	109	108	104	96	78	58
800	93	94	94	95	92	90	93	95	96	97	98	102	108	106	106	102	95	75	55
1000	91	93	95	94	92	90	93	94	96	97	96	101	106	105	105	101	93	73	53
1250	92	93	95	94	94	90	93	94	95	97	95	100	106	104	103	99	93	71	51
1600	93	94	94	95	95	92	95	96	96	97	95	99	105	102	103	98	92	72	52
2000	92	93	94	94	94	91	97	97	98	98	95	97	104	100	101	97	90	69	49
2500	89	88	90	91	91	88	94	97	97	96	94	95	103	98	100	96	88	70	50
3150	87	86	88	89	89	86	92	94	96	94	92	93	102	96	98	93	85	68	48
4000	87	87	88	90	89	87	93	95	96	96	91	92	103	95	97	92	83	68	48
5000	83	82	84	85	86	83	90	93	93	93	88	90	102	94	96	90	79	65	45
6300	82	80	82	83	83	81	88	90	91	91	86	87	100	90	94	87	75	60	40
8000	79	77	79	80	80	78	86	88	89	91	85	87	100	91	93	86	74	55	35
10000	75	74	76	77	78	75	83	87	87	89	85	85	101	91	94	87	71	51	31
OVERALL	105	105	106	106	105	104	106	108	109	109	111	116	123	125	124	121	113	92	72

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
AFTERBURNER POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 04
AIRCRAFT CODE 046
OPERATION CODE 02003
PROFILE VERSION A
06 APR 76
PAGE D4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	117.3	117.8	118.8	119.0	118.5	116.1	120.7	122.5	123.2	123.5	122.4	126.1	133.5	132.0	131.8	128.6	120.3	100.4	79.5
250	115.1	115.6	116.6	116.8	116.3	113.9	118.5	120.3	120.9	121.2	120.2	123.9	131.2	129.9	129.7	126.5	118.2	98.3	77.3
315	112.8	113.4	114.4	114.5	114.1	111.7	116.3	118.0	118.6	118.9	117.9	121.8	128.9	127.8	127.5	124.4	116.1	96.1	74.9
400	110.5	111.1	112.1	112.2	111.7	109.4	113.9	115.6	116.3	116.4	115.6	119.6	126.7	125.6	125.3	122.1	113.9	93.8	72.5
500	108.1	108.8	109.7	109.8	109.4	107.0	111.5	113.2	113.8	113.8	113.2	117.3	124.4	123.3	123.0	119.8	111.6	91.3	70.0
630	105.6	106.3	107.2	107.3	106.9	104.5	109.0	110.6	111.2	111.3	110.7	114.9	121.9	121.0	120.6	117.4	109.2	88.8	67.3
800	103.0	103.7	104.6	104.7	104.2	101.8	106.3	107.8	108.5	108.6	108.0	112.5	119.4	118.6	118.2	114.9	106.7	86.0	64.5
1000	100.3	101.0	101.9	102.0	101.5	99.1	103.5	105.0	105.6	105.8	105.2	109.9	116.8	116.0	115.6	112.4	104.1	83.1	61.7
1250	97.3	98.0	99.0	99.0	98.5	96.1	100.5	101.8	102.6	102.8	102.4	107.2	113.8	113.1	112.9	109.4	101.3	80.0	58.7
1600	94.2	94.9	95.8	95.8	95.3	92.8	97.2	98.5	99.3	99.5	99.5	104.3	110.7	110.3	110.0	106.4	98.4	77.0	55.3
2000	90.9	91.5	92.4	92.5	91.9	89.4	93.7	94.9	95.8	96.0	96.4	101.3	107.6	107.2	106.9	103.3	95.3	73.8	51.8
2500	87.2	87.9	88.7	88.9	88.2	85.7	89.9	91.1	92.0	92.2	92.5	97.5	103.8	103.4	103.1	99.4	91.4	70.0	47.2
3150	83.2	83.9	84.7	84.9	84.2	81.6	85.6	86.8	87.7	88.0	88.6	93.3	99.8	99.2	98.9	95.1	87.1	66.0	42.5
4000	78.9	79.5	80.3	80.5	79.7	77.1	80.9	82.1	83.0	83.3	84.2	88.7	95.3	94.7	94.3	90.5	82.4	61.5	36.4
5000	74.1	74.8	75.6	75.6	74.8	72.1	75.7	76.8	77.8	78.3	79.5	84.0	90.5	89.9	89.5	85.6	77.7	56.3	29.3
6300	69.0	69.8	70.5	70.6	69.4	66.7	70.2	71.1	72.3	73.2	74.5	79.1	85.5	85.9	84.6	80.7	72.7	50.9	19.7
8000	64.8	65.6	66.3	66.3	64.5	61.9	64.9	66.3	67.8	68.7	70.4	75.2	81.7	81.3	80.8	76.9	68.9	46.2	11.2
10000	60.2	61.0	61.6	61.6	59.8	57.1	60.0	61.5	63.1	63.9	65.9	71.1	77.5	77.3	76.9	73.0	64.8	40.3	2.7
12500	55.1	55.9	56.7	56.5	54.8	51.8	54.7	56.2	57.9	58.8	61.2	66.6	73.1	73.1	72.6	68.7	60.3	34.4	
16000	49.2	50.6	51.3	50.7	49.1	45.7	48.7	50.3	52.4	53.2	56.1	61.7	68.3	68.5	67.9	64.1	55.3	27.3	
20000	42.3	44.2	44.8	43.7	42.5	39.0	41.6	43.4	45.9	47.0	50.2	56.2	63.0	63.4	62.8	59.0	49.7	17.1	
25000	34.2	36.5	37.2	35.4	33.9	30.5	33.5	35.8	38.6	39.5	43.3	50.0	57.0	57.7	57.1	53.2	42.9	6.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
AFTERBURNER POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-304-039
RUN 04
AIRCRAFT CODE 046
OPERATION CODE 02003
PROFILE VERSION A
06 APR 76

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	117.3	117.8	118.8	119.0	118.5	116.1	120.7	122.5	123.2	123.5	122.4	126.1	133.5	132.0	131.8	128.6	120.3	101.5	80.5
250	115.1	115.6	116.6	116.8	116.3	113.9	118.5	120.3	120.9	121.2	120.2	123.9	131.2	129.9	129.7	126.5	118.2	99.3	78.3
315	112.8	113.4	114.4	114.5	114.1	111.7	116.3	118.0	118.6	118.9	117.9	121.8	128.9	127.8	127.5	124.4	116.1	97.1	76.0
400	110.5	111.1	112.1	112.2	111.7	109.4	113.9	115.6	116.3	116.4	115.6	119.6	126.7	125.6	125.3	122.1	113.9	94.8	73.6
500	108.1	108.8	109.7	109.8	109.4	107.0	111.5	113.2	113.8	113.8	113.2	117.3	124.4	123.3	123.0	119.8	111.6	92.4	71.0
630	105.6	106.3	107.2	107.3	106.9	104.5	109.0	110.6	111.2	111.3	110.7	114.9	121.9	121.0	120.6	117.4	109.2	89.8	68.3
800	103.0	103.7	104.6	104.7	104.2	101.8	106.3	107.8	108.5	108.6	108.0	112.5	119.4	118.6	118.2	114.9	106.7	87.0	65.5
1000	100.3	101.0	101.9	102.0	101.5	99.1	103.5	105.0	105.6	105.8	105.2	109.9	116.8	116.0	115.6	112.4	104.1	84.1	62.7
1250	97.3	98.0	99.0	99.0	98.5	96.1	100.5	101.8	102.6	102.8	102.4	107.2	113.8	113.1	112.9	109.4	101.3	81.0	59.7
1600	94.2	94.9	95.8	95.8	95.3	92.8	97.2	98.5	99.3	99.5	99.5	104.3	110.7	110.3	110.0	106.4	98.4	78.0	56.4
2000	90.9	91.5	92.4	92.5	91.9	89.4	93.7	94.9	95.8	96.0	96.4	101.3	107.6	107.2	106.9	103.3	95.3	74.9	52.8
2500	87.2	87.9	88.7	88.9	88.2	85.7	89.9	91.1	92.0	92.2	92.5	97.5	103.8	103.4	103.1	99.4	91.4	71.0	48.3
3150	83.2	83.9	84.7	84.9	84.2	81.6	85.6	86.8	87.7	88.0	88.6	93.3	99.8	99.2	98.9	95.1	87.1	67.0	43.5
4000	78.9	79.5	80.3	80.5	79.7	77.1	80.9	82.1	83.0	83.3	84.2	88.7	95.3	94.7	94.3	90.5	82.4	62.3	37.2
5000	74.1	74.8	75.6	75.6	74.8	72.1	75.7	76.8	77.8	78.3	79.5	84.0	90.5	89.9	89.5	85.6	77.7	56.9	29.9
6300	69.0	69.8	70.5	70.6	69.4	66.7	70.2	71.1	72.3	73.2	74.5	79.1	85.5	85.0	84.6	80.7	72.7	51.3	20.1
8000	64.8	65.6	66.3	66.3	64.5	61.9	64.9	66.3	67.8	68.7	70.4	75.2	81.7	81.3	80.8	76.9	68.9	46.4	11.4
10000	60.2	61.0	61.6	61.6	59.8	57.1	60.0	61.5	63.1	63.9	65.9	71.1	77.5	77.3	76.9	73.0	64.8	40.3	2.7
12500	55.1	55.9	56.7	56.5	54.8	51.8	54.7	56.2	57.9	58.8	61.2	66.6	73.1	73.1	72.6	68.7	60.3	34.4	
16000	49.2	50.6	51.3	50.7	49.1	45.7	48.7	50.3	52.4	53.2	56.1	61.7	68.3	68.5	67.9	64.1	55.3	27.3	
20000	42.3	44.2	44.8	43.7	42.5	39.0	41.6	43.4	45.9	47.0	50.2	56.2	63.0	63.4	62.8	59.0	49.7	17.1	
25000	34.2	36.5	37.2	35.4	33.9	30.5	33.5	35.8	38.6	39.5	43.3	50.0	57.0	57.7	57.1	53.2	42.9	6.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
AFTERBURNER POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 04
AIRCRAFT CODE 046
OPERATION CODE 02003
PROFILE VERSION A
06 APR 76
PAGE F4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	104.4	105.2	106.3	106.4	105.5	102.7	107.0	108.5	109.4	109.7	109.2	113.4	120.0	118.6	118.3	114.8	106.9	86.6	66.6
250	102.2	103.1	104.1	104.2	103.3	100.5	104.8	106.3	107.2	107.5	107.1	111.4	117.9	116.6	116.2	112.7	104.8	84.5	64.5
315	100.1	101.0	102.0	102.1	101.1	98.4	102.6	104.1	105.0	105.3	105.0	109.3	115.7	114.5	114.1	110.7	102.8	82.4	62.4
400	97.9	98.8	99.8	99.9	98.9	96.1	100.3	101.7	102.7	103.0	102.8	107.1	113.5	112.4	112.0	108.5	100.6	80.2	60.2
500	95.7	96.6	97.6	97.6	96.7	93.9	98.0	99.4	100.4	100.7	100.6	105.0	111.3	110.2	109.8	106.3	98.5	78.0	58.0
630	93.4	94.3	95.3	95.3	94.3	91.5	95.6	96.9	97.9	98.3	98.3	102.7	109.0	108.0	107.5	104.0	96.2	75.8	55.8
800	91.0	92.0	93.0	93.0	91.9	89.1	93.1	94.4	95.5	95.9	96.0	100.4	106.7	105.7	105.2	101.7	93.9	73.4	53.4
1000	88.6	89.6	90.6	90.5	89.4	86.6	90.5	91.8	92.9	93.3	93.6	98.1	104.3	103.3	102.8	99.3	91.4	71.0	51.0
1250	86.0	87.1	88.1	88.0	86.9	84.0	87.8	89.0	90.2	90.7	91.0	95.6	101.7	100.8	100.3	96.7	88.9	68.5	48.5
1600	83.4	84.5	85.5	85.4	84.2	81.3	85.0	86.2	87.4	88.0	88.4	93.0	99.1	98.2	97.7	94.0	86.2	65.8	45.8
2000	80.7	81.8	82.8	82.6	81.3	78.5	82.0	83.2	84.5	85.1	85.7	90.4	96.4	95.5	95.0	91.1	83.5	63.1	43.1
2500	77.7	78.8	79.8	79.6	78.3	75.4	78.8	80.0	81.3	82.0	82.7	87.4	93.3	92.4	91.9	88.0	80.4	60.1	40.1
3150	74.4	75.6	76.5	76.4	74.9	72.1	75.4	76.5	78.0	78.7	79.5	84.0	90.0	89.0	88.5	84.5	77.0	56.8	36.8
4000	70.8	71.9	72.9	72.8	71.2	68.4	71.7	72.8	74.3	75.1	75.8	80.3	86.3	85.2	84.7	80.6	73.2	53.2	33.2
5000	66.7	67.8	68.9	68.8	67.1	64.3	67.5	68.6	70.1	71.0	71.7	76.2	82.2	81.0	80.5	76.4	69.0	49.1	29.1
6300	62.3	63.4	64.5	64.4	62.6	59.9	62.9	64.0	65.7	66.6	67.3	71.8	77.8	76.6	76.1	72.0	64.6	44.7	24.7
8000	58.2	59.3	60.3	60.2	58.3	55.6	58.5	59.7	61.5	62.4	63.4	68.0	73.9	72.9	72.3	68.2	60.8	40.9	20.9
10000	53.8	54.9	55.8	55.7	53.7	51.1	53.8	55.1	56.9	57.8	59.1	63.9	69.8	68.9	68.3	64.2	56.7	36.8	16.8
12500	49.0	50.2	51.0	50.7	48.8	46.1	48.8	50.1	52.0	52.9	54.6	59.3	65.3	64.6	63.9	59.9	52.3	32.3	12.3
16000	43.8	45.0	45.7	45.4	43.5	40.8	43.3	44.7	46.6	47.5	49.6	54.4	60.4	59.9	59.2	55.3	47.5	27.5	7.5
20000	38.1	39.3	40.0	39.5	37.7	35.0	37.4	38.9	40.8	41.6	44.1	49.1	55.1	54.8	54.1	50.4	42.5	22.3	2.3
25000	31.8	33.1	33.7	33.0	31.5	28.9	31.1	32.6	34.5	35.3	38.1	43.3	49.3	49.4	48.6	45.3	37.2	16.7	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-039
RUN 04
AIRCRAFT CODE 046
OPERATION CODE 02003
PROFILE VERSION A
06 APR 76
PAGE 64

NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
AFTERBURNER POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	104.4	105.2	106.3	106.4	105.5	102.7	107.0	108.5	109.4	109.7	109.2	113.4	120.0	118.6	118.3	114.8	106.9	87.6	67.6
250	102.2	103.1	104.1	104.2	103.3	100.5	104.8	106.3	107.2	107.5	107.1	111.4	117.9	116.6	116.2	112.7	104.8	85.5	65.5
315	100.1	101.0	102.0	102.1	101.1	98.4	102.6	104.1	105.0	105.3	105.0	109.3	115.7	114.5	114.1	110.7	102.8	83.4	63.4
400	97.9	98.8	99.8	99.9	98.9	96.1	100.3	101.7	102.7	103.0	102.8	107.1	113.5	112.4	112.3	108.5	100.6	81.3	61.3
500	95.7	96.6	97.6	97.6	96.7	93.9	98.0	99.4	100.4	100.7	100.6	105.0	111.3	110.2	109.6	106.3	98.5	79.1	59.1
630	93.4	94.3	95.3	95.3	94.3	91.5	95.6	96.9	97.9	98.3	98.3	102.7	109.0	108.0	107.5	104.0	96.2	76.8	56.8
800	91.0	92.0	93.0	93.0	91.9	89.1	93.1	94.4	95.5	95.9	96.0	100.4	106.7	105.7	105.2	101.7	93.9	74.4	54.4
1000	88.6	89.6	90.6	90.5	89.4	86.6	90.5	91.8	92.9	93.3	93.6	98.1	104.3	103.3	102.8	99.3	91.4	72.0	52.0
1250	86.0	87.1	88.1	88.0	86.9	84.0	87.8	89.0	90.2	90.7	91.0	95.6	101.7	100.8	100.3	96.7	88.9	69.5	49.5
1600	83.4	84.5	85.5	85.4	84.2	81.3	85.0	86.2	87.4	88.0	88.4	93.0	99.1	98.2	97.7	94.0	86.2	66.9	46.9
2000	80.7	81.8	82.8	82.6	81.3	78.5	82.0	83.2	84.5	85.1	85.7	90.4	96.4	95.5	95.0	91.1	83.5	64.1	44.1
2500	77.7	78.8	79.8	79.6	78.3	75.4	78.8	80.0	81.3	82.0	82.7	87.4	93.3	92.4	91.9	88.0	80.4	61.1	41.1
3150	74.4	75.6	76.5	76.4	74.9	72.1	75.4	76.5	78.0	78.7	79.5	84.0	90.0	89.0	88.5	84.5	77.0	57.9	37.9
4000	70.8	71.9	72.9	72.8	71.2	68.4	71.7	72.8	74.3	75.1	75.8	80.3	86.3	85.2	84.7	80.6	73.2	54.0	34.0
5000	66.7	67.8	68.9	68.8	67.1	64.3	67.5	68.6	70.1	71.0	71.7	76.2	82.2	81.0	80.5	76.4	69.0	49.7	29.7
6300	62.3	63.4	64.5	64.4	62.6	59.9	62.9	64.0	65.7	66.6	67.3	71.8	77.8	76.6	76.1	72.0	64.6	45.1	25.1
8000	58.2	59.3	60.3	60.2	58.3	55.6	58.5	59.7	61.5	62.4	63.4	68.0	73.9	72.9	72.3	68.2	60.8	41.1	21.1
10000	53.6	54.9	55.8	55.7	53.7	51.1	53.8	55.1	56.9	57.8	59.1	63.8	69.8	68.9	68.3	64.2	56.7	36.8	16.8
12500	49.0	50.2	51.0	50.7	48.8	46.1	48.8	50.1	52.0	52.9	54.6	59.3	65.3	64.6	63.9	59.9	52.3	32.3	12.3
16000	43.8	45.0	45.7	45.4	43.5	40.8	43.3	44.7	46.6	47.5	49.6	54.4	60.4	59.9	59.2	55.3	47.5	27.5	7.5
20000	38.1	39.3	40.0	39.5	37.7	35.0	37.4	38.9	40.8	41.6	44.1	49.1	55.1	54.8	54.1	50.4	42.5	22.3	2.3
25000	31.8	33.1	33.7	33.0	31.5	28.9	31.1	32.6	34.5	35.3	38.1	43.3	49.3	49.4	48.6	45.3	37.2	16.7	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

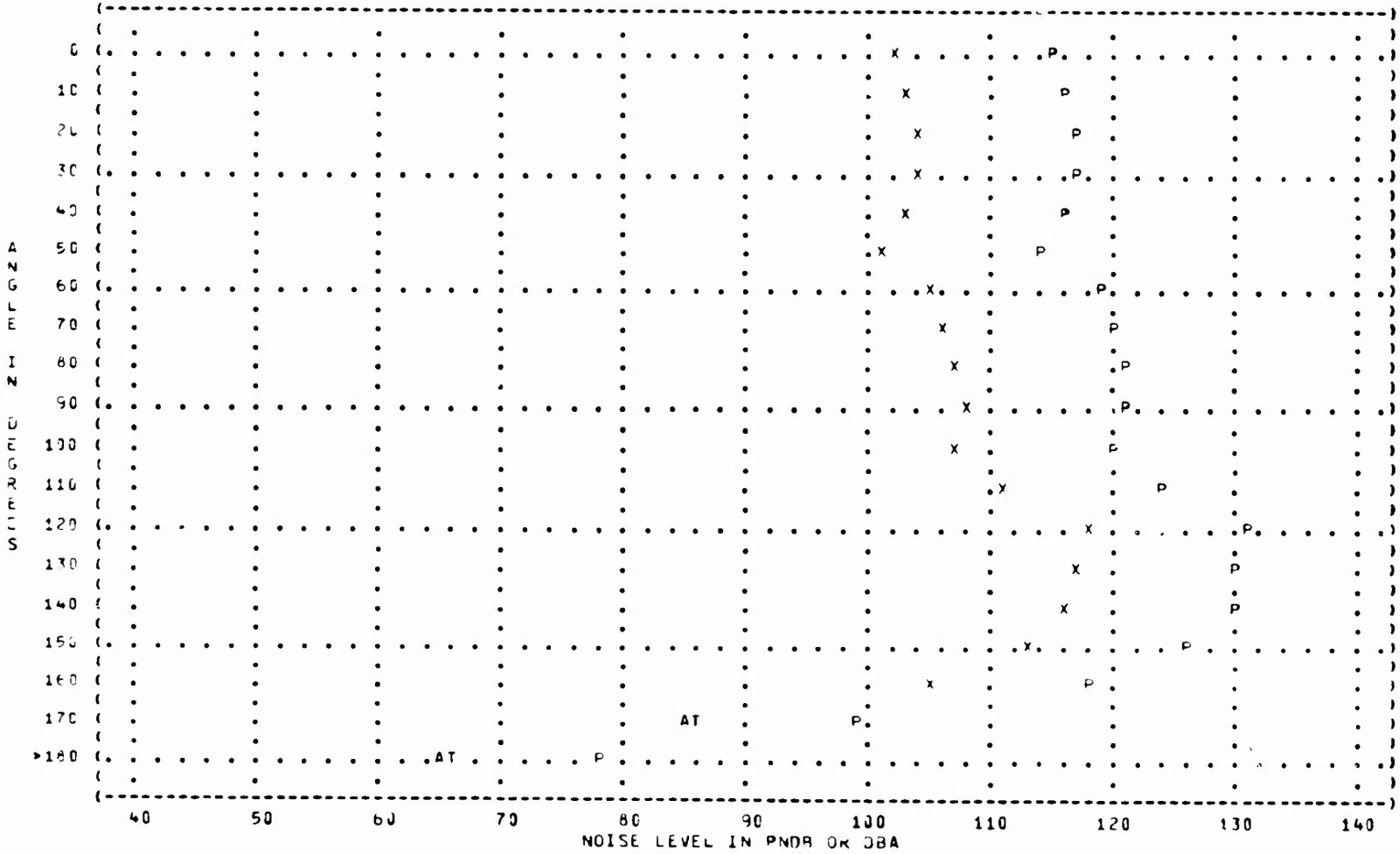
NOISE SOURCE/SUBJECT:
F-5E AIRCRAFT
ENG. J85-GE-21
GROUND RUNUP

OPERATION:
AFTERBURNER POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-304-039
RUN 04
AIRCRAFT CODE 046
OPERATION CODE 02003
PROFILE VERSION A
06 APR 76
PAGE 34

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 USAF

NOISE PRODUCED ON THE GROUND BY

F-15 AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 061
PROFILE VERSION: 8
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING	PAGE
AFTERBURNER 91% RPM	353-361
TAKEOFF 90% RPM	362-370
CRUISE 73.5% RPM	371-379
APPROACH 75% RPM	380-388

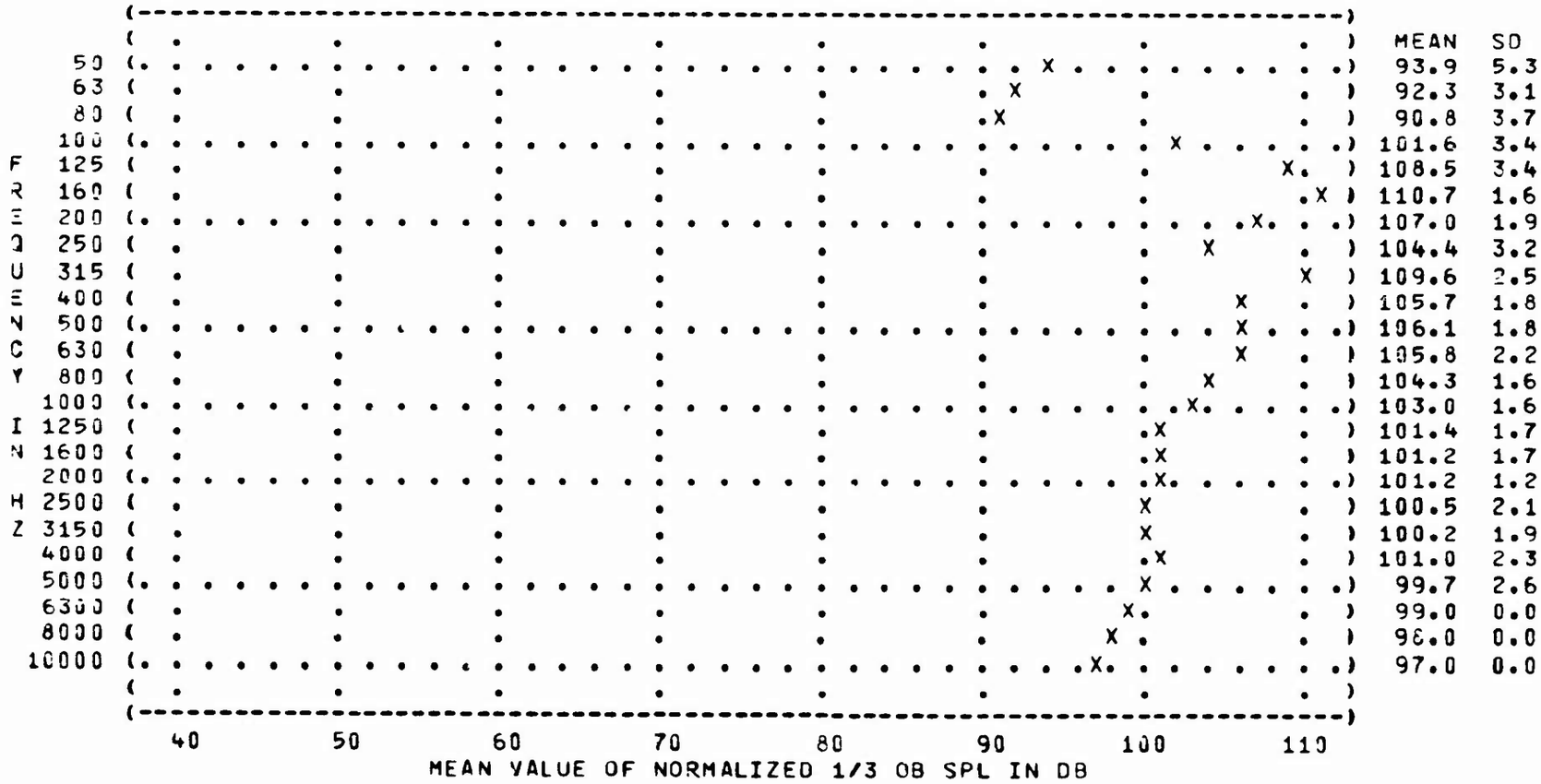
FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
- AIR-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
- GROUND-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

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AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 AIRCRAFT F-15 USAF



F-15 AFTERBURNER POWER 91 % RPM

AIRSPEED = 350 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-061-101-120977

PNLT = 128.6 PNDB
PNL = 127.9 PNDB
ALT = 114.8 DBA
AL = 114.0 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 061
OPS CODE: 101
PROFILE VER: B
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PAGE H1

AIRCRAFT: F-15

OPERATION:
AFTERBURNER POWER
91 % RPM
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	108	106	105	116	123	125	121	119	124	120	121	121	119	118	117	118	118	118	120	123	123	126	130	138
250	106	104	103	114	121	123	119	117	122	118	119	119	117	116	115	115	116	116	117	120	120	123	127	134
315	104	102	101	112	119	121	117	115	120	116	117	117	115	114	113	113	114	114	115	118	117	120	124	130
400	102	100	99	110	117	119	115	113	118	114	115	114	113	112	111	111	111	111	112	115	114	117	120	125
500	100	98	97	108	115	117	113	111	116	112	113	112	111	110	109	109	109	109	110	112	111	113	115	120
630	98	96	95	106	113	115	111	109	114	110	110	110	109	108	106	106	107	106	107	109	108	109	110	113
800	96	94	93	104	111	113	109	106	112	108	108	108	107	105	104	104	104	104	104	105	104	104	105	106
1000	94	92	91	102	109	111	107	104	110	106	106	106	104	103	101	101	101	100	100	101	100	99	98	97
1250	92	90	89	100	106	109	105	102	107	103	104	103	102	101	99	98	98	97	96	97	95	93	90	86
1600	90	88	87	97	104	107	103	100	105	101	102	101	99	98	96	95	95	94	92	92	89	86	81	73
2000	88	86	85	95	102	104	101	98	103	99	99	99	97	95	93	92	91	90	87	86	83	77	69	57
2500	86	84	83	93	100	102	98	96	101	97	97	96	94	92	90	89	87	85	82	79	75	67	55	38
3150	84	82	81	91	98	100	96	93	98	94	94	93	91	89	86	85	83	80	76	71	66	55	38	14
4000	82	80	78	89	96	98	94	91	96	92	91	90	88	86	83	80	78	74	68	61	54	40	17	
5000	80	78	76	87	94	96	92	89	93	89	88	87	84	82	78	75	72	66	59	49	41	22		
6300	77	76	74	85	91	93	89	86	91	86	85	84	81	77	73	69	65	58	48	35	24			
8000	75	74	72	82	89	91	86	83	88	83	82	80	76	72	67	63	57	48	35	17	4			
10000	73	71	70	80	87	88	84	80	85	79	78	75	71	67	61	55	47	36	19					
12500	71	69	67	78	84	85	81	77	81	75	74	71	65	60	53	45	35	21	0					
16000	69	67	65	75	81	82	78	74	77	71	69	65	59	52	43	33	21	2						
20000	66	64	62	72	78	79	74	70	73	66	63	58	51	42	32	19	3							
25000	64	62	60	69	75	76	70	66	68	60	56	50	41	31	18	2								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-15

OPERATION: AFTERBURNER POWER 91 % RPM, AIRSPEED = 350 KNOTS

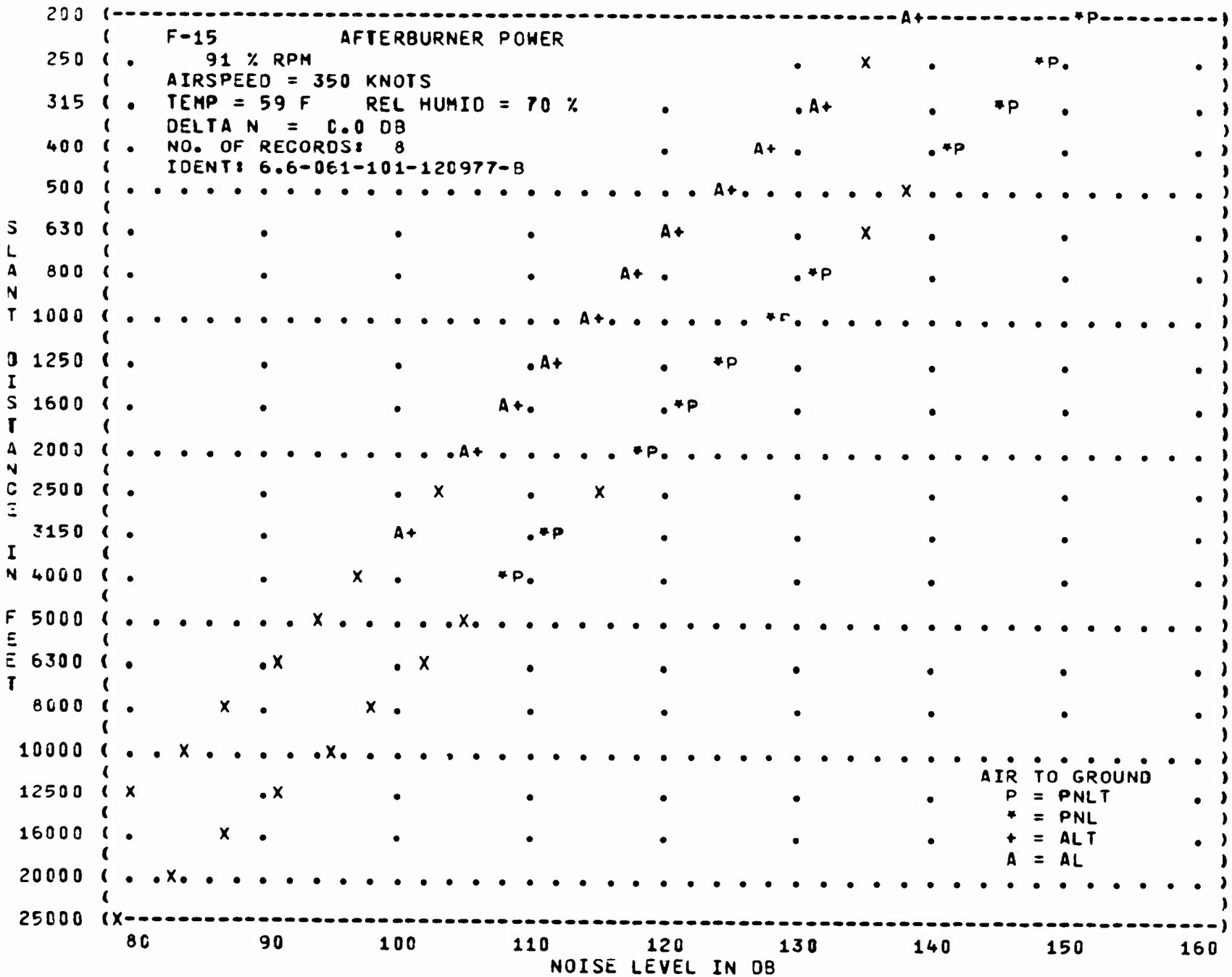
METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 061
OPS CODE: 101
PROFILE VER: 8
12 SEP 77
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	137.8	138.5	151.0	151.8	135.7	136.7	139.1
250	134.5	135.3	148.0	148.8	133.4	134.4	137.1
315	131.1	131.8	144.8	145.5	131.0	132.0	134.4
400	127.5	128.3	141.3	142.1	128.4	129.4	132.4
500	123.9	124.6	137.6	138.4	125.8	126.8	129.7
630	120.4	121.1	134.6	135.3	123.3	124.3	127.7
800	117.1	117.8	131.3	132.1	121.0	122.0	125.4
1000	114.0	114.8	127.9	128.6	118.9	119.9	123.0
1250	111.1	111.9	124.2	125.0	117.0	118.0	120.3
1600	108.3	109.1	120.9	121.7	115.2	116.2	118.0
2000	105.5	106.2	117.6	118.6	113.4	114.4	115.9
2500	102.7	103.4	114.7	115.4	111.6	112.6	113.8
3150	99.8	100.5	111.5	112.2	109.7	110.7	111.6
4000	96.8	97.4	108.3	108.9	107.7	108.5	109.2
5000	93.7	94.2	105.0	105.4	105.6	106.2	106.7
6300	90.5	90.8	101.6	101.9	103.4	103.8	104.1
8000	87.2	87.4	98.2	98.3	101.1	101.3	101.5
10000	83.7	83.7	94.6	94.6	98.6	98.6	98.7
12500	80.1	80.1	91.0	91.0	96.0	96.0	96.1
16000	76.2	76.2	87.3	87.3	93.1	93.1	93.4
20000	72.2	72.2	83.4	83.4	90.1	90.1	90.5
25000	67.9	67.9	79.1	79.1	86.8	86.8	87.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-15 AFTERBURNER POWER
91 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-061-101-120977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
80
90
100
110
120
130
140
150
160
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

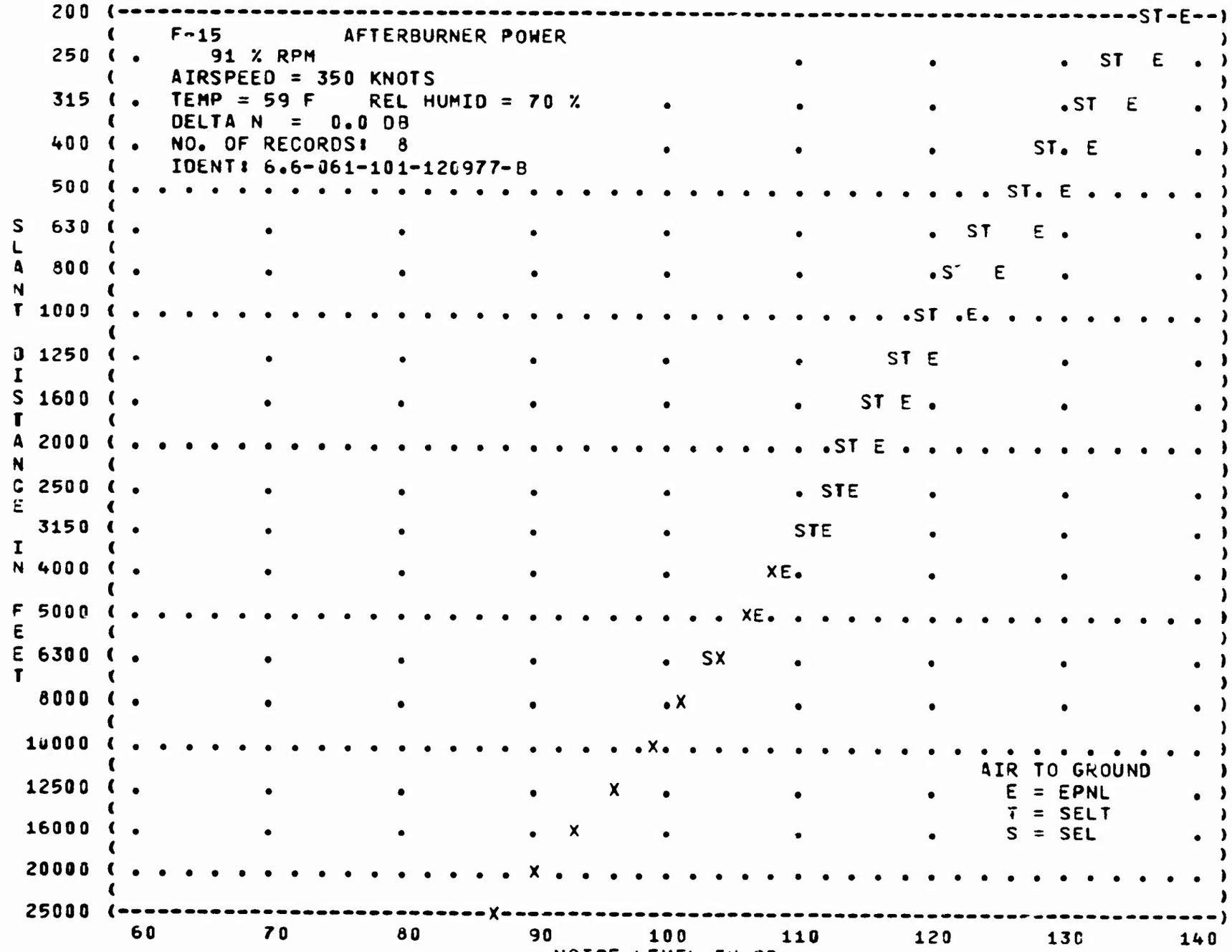

F-15 AFTERBURNER POWER
91 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-061-101-120977-B
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-15

OPERATION:
AFTERBURNER POWER
91 % RPM
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
A/C CODE: 061
OPS CODE: 101
PROFILE VER: B
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PACE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	103	101	100	111	118	120	116	114	119	115	116	116	114	113	112	113	113	113	115	118	118	121	125	133
250	101	99	98	109	116	118	114	112	117	113	114	114	112	111	110	110	111	111	112	115	115	118	122	129
315	99	97	96	107	114	116	112	110	115	111	112	112	110	109	108	108	109	109	110	113	112	115	119	125
400	97	95	94	105	112	114	110	108	113	109	110	109	108	107	106	106	106	106	107	110	109	112	115	120
500	95	93	92	103	110	111	108	105	111	107	108	107	106	105	104	104	104	104	105	107	106	108	110	115
630	93	91	90	101	107	109	105	103	109	105	105	105	104	103	101	101	102	101	102	104	103	104	105	108
800	91	89	88	98	104	106	102	100	107	103	103	103	102	100	99	99	99	99	99	100	99	99	100	101
1000	89	87	86	95	101	103	99	97	104<	101	101	101	99	98	96	96	96	95	95	96	95	94	93	92
1250	87	85	83	92	98	100	96	94	101	98	99	98	97	96	94	93	93	92	91	92	90	88	85	81
1600	85	82	79	89	95	96	93	90	98	96	97	96	94	93	91	90	90	89	87	87	84	81	76	68
2000	82	79	76	85	91	92	89	86	95	94	94	94	92	90	88	87	86	85	82	81	78	72	64	52
2500	78	75	72	81	87	88	84	82	90	90	92	91	89	87	85	84	82	80	77	74	70	62	50	33
3150	74	70	67	76	82	83	79	77	86	86	88	88	86	84	81	80	78	75	71	66	61	50	33	9
4000	70	65	62	70	76	77	73	71	81	81	84	85	83	81	78	75	73	69	63	56	49	35	12	
5000	64	60	57	65	71	73	69	66	75	76	80	80	79	77	73	70	67	61	54	44	36	17		
6300	59	56	52	61	66	68	64	51	69	70	75	76	75	72	68	64	60	53	43	30	19			
8000	57	54	50	58	64	65	61	58	66	67	72	72	70	67	62	58	52	43	30	12				
10000	55	51	48	56	62	63	58	55	63	63	68	67	65	62	56	50	42	31	14					
12500	53	49	45	54	59	60	55	52	59	59	64	63	59	55	48	40	30	16						
16000	51	47	43	51	56	57	52	49	55	55	59	57	53	47	38	28	16							
20000	48	44	40	48	53	54	49	45	51	50	53	50	45	37	27	14								
25000	46	42	38	45	50	50	45	41	46	44	46	42	35	26	13									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-15

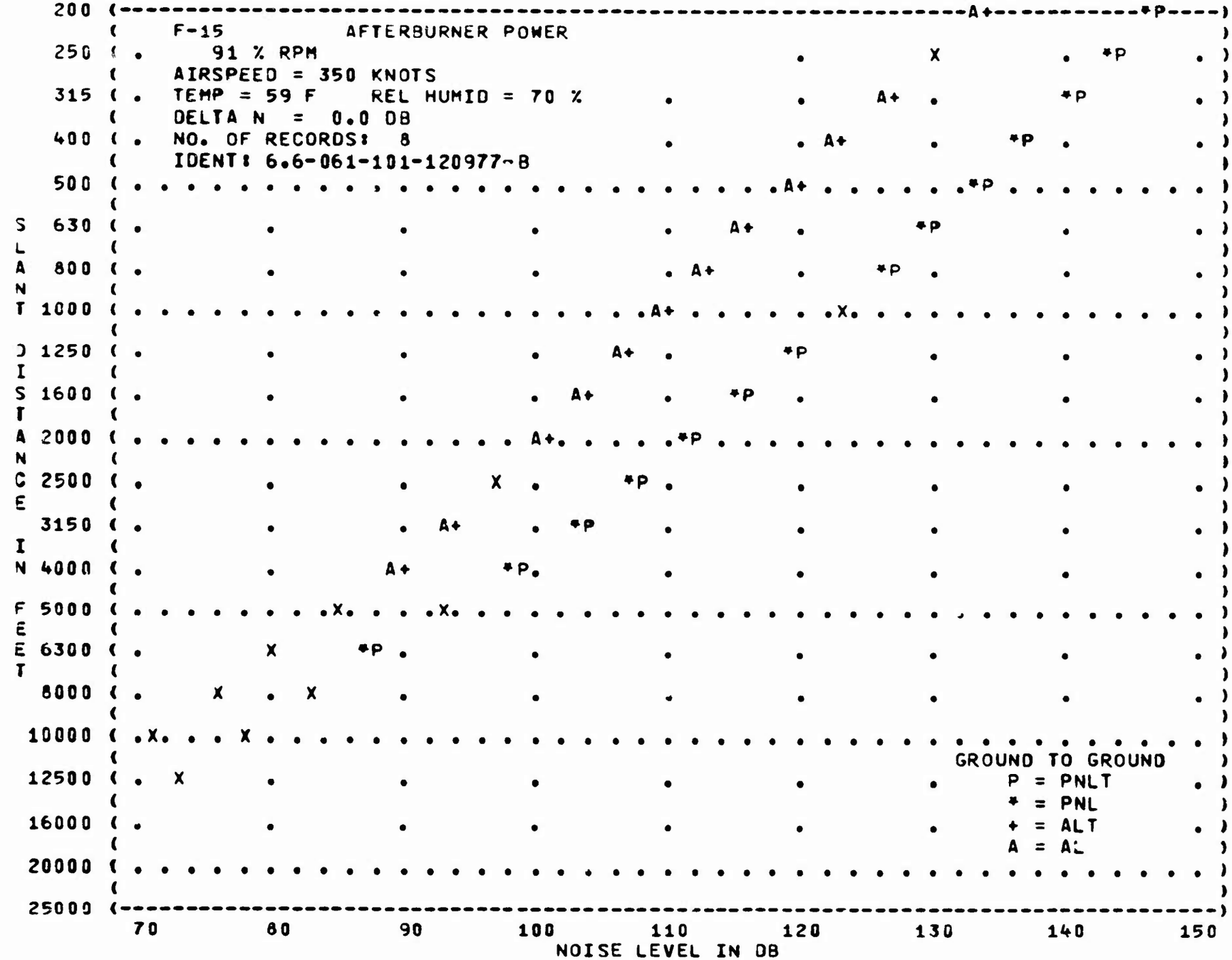
OPERATION:
AFTERBURNER POWER
91 % RPM
AIRSPEED = 350 KNOTS

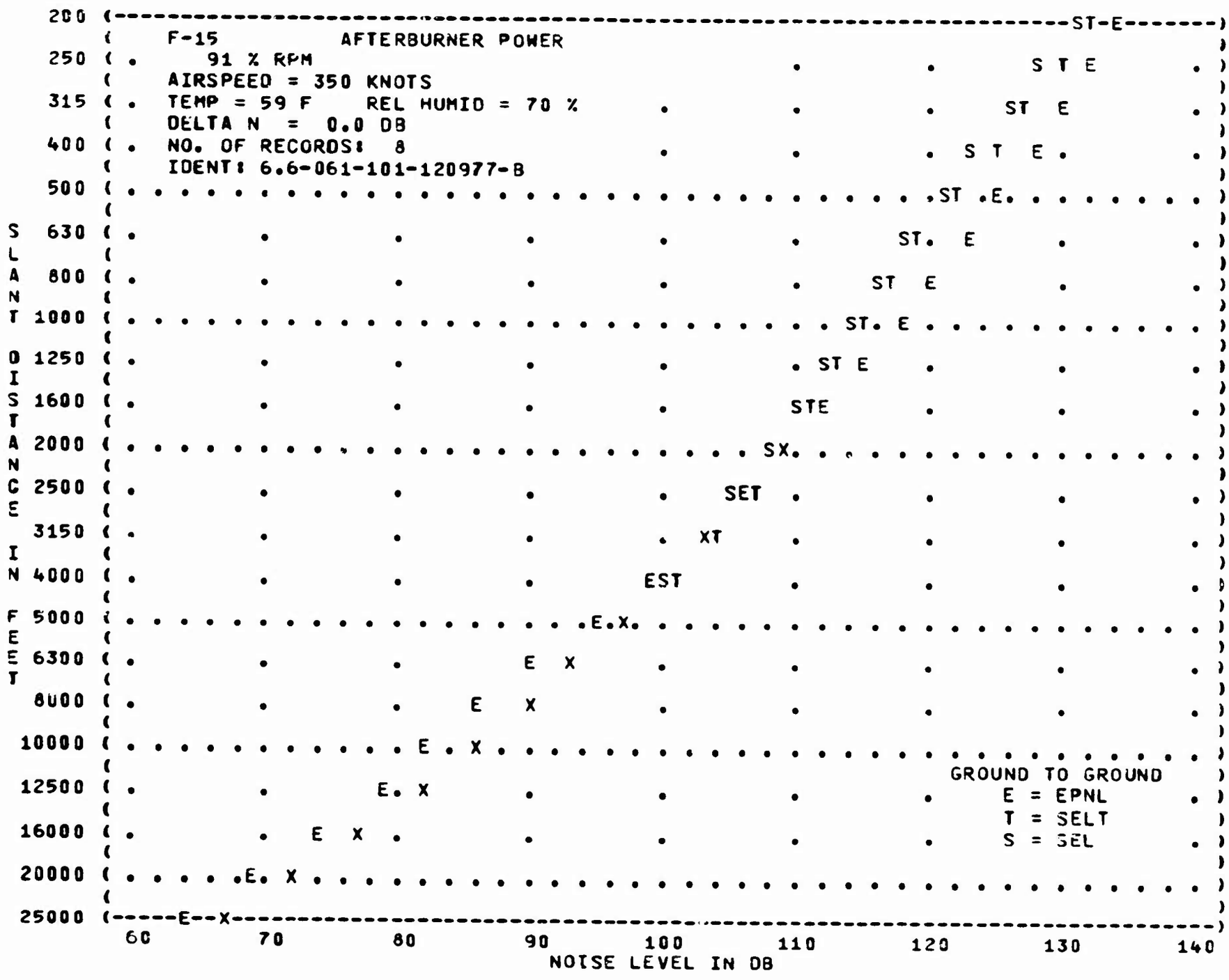
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

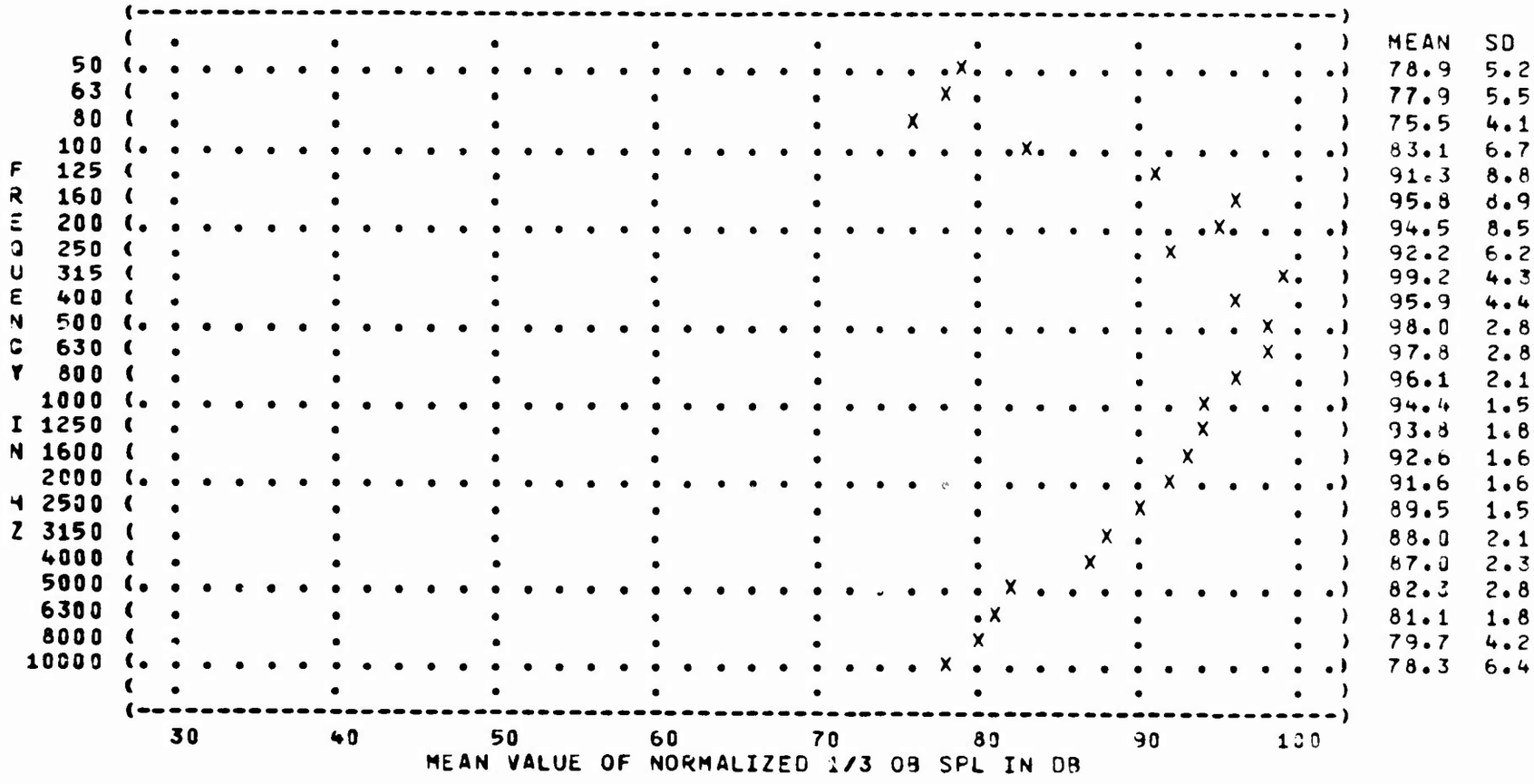
A/C CODE: 061
OPS CODE: 101
PROFILE VER: 8
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PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	132.8	133.7	146.0	147.0	130.7	131.8	134.3
250	129.5	130.4	143.0	143.9	128.4	129.6	132.3
315	126.1	127.0	139.8	140.7	126.0	127.1	130.1
400	122.5	123.4	136.3	137.2	123.4	124.6	127.6
500	118.9	119.8	132.6	133.5	120.8	121.9	124.9
630	115.3	116.3	129.5	130.4	118.2	119.4	122.7
800	112.0	112.9	126.1	127.1	115.9	117.1	120.4
1000	108.9	109.8	122.6	123.5	113.8	115.0	117.8
1250	105.9	106.8	118.7	119.6	111.8	112.9	115.0
1600	102.9	103.8	114.8	115.8	109.8	110.9	112.1
2000	99.8	100.7	110.8	111.7	107.7	108.9	109.1
2500	96.5	97.5	106.9	107.8	105.4	106.6	106.2
3150	93.0	93.9	102.6	103.5	102.9	104.1	102.9
4000	89.1	89.9	97.9	98.7	100.0	101.0	99.0
5000	84.7	85.3	92.8	93.3	96.6	97.3	94.6
6300	80.0	80.3	87.4	87.8	92.9	93.3	90.0
8000	75.7	75.9	82.9	83.1	89.6	89.8	86.3
10000	71.0	71.0	78.4	78.4	85.9	85.9	82.5
12500	66.0	66.0	73.5	73.5	81.9	81.9	78.6
16000	60.5	60.5	68.1	68.1	77.4	77.4	74.2
20000	54.5	54.5	62.2	62.2	72.4	72.4	69.3
25000	48.1	48.1	55.4	55.4	67.0	67.0	63.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-15 AFTERBURNER POWER
91 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-061-101-120977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-15 AFTERBURNER POWER
91 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-061-101-120977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-15 TAKEOFF POWER 90 % RPM

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 12

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-061-103-120977

PNLT = 116.6 PNDB
PNL = 115.8 PNDB
ALT = 105.1 DBA
AL = 104.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-15

OPERATION:
TAKEOFF POWER
90 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 061
OPS CODE: 103
PROFILE VER: 8
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PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	93	92	90	97	105	110	109	106	114	110	113	113	111	110	109	109	108	107	107	107	104	106	109	115
250	91	90	88	95	103	108	107	104	112	108	111	110	109	108	107	107	106	105	104	105	101	103	106	112
315	89	88	86	93	101	106	105	102	110	106	109	108	107	105	105	104	104	102	102	102	99	100	103	108
400	87	86	84	91	99	104	103	100	107	104	106	106	105	103	103	102	102	100	99	100	96	97	99	104
500	85	84	82	89	97	102	101	98	105	102	104	104	103	101	101	100	99	98	97	97	93	94	95	99
630	83	82	80	87	95	100	99	96	103	100	102	102	101	99	99	98	97	95	94	94	90	90	91	93
800	81	80	78	85	93	98	97	94	101	98	100	100	98	97	96	95	94	92	91	91	86	86	86	86
1000	79	78	76	83	91	96	95	92	99<	96	98	98	96	94	94	93	92	90	88	87	82	81	80	78
1250	77	76	74	81	89	94	92	90	97	94	96	96	94	92	91	90	89	86	85	83	78	76	73	69
1600	75	74	71	79	87	92	90	88	95	92	94	93	91	89	89	87	86	83	81	78	73	69	64	57
2000	73	72	69	77	85	90	88	86	93	89	91	91	89	87	86	84	82	79	76	73	67	62	54	44
2500	71	70	67	75	83	87	86	84	90	87	89	88	86	84	83	81	79	75	71	67	60	53	42	27
3150	69	68	65	73	81	85	84	81	88	85	86	86	83	81	80	77	75	70	66	59	52	42	27	6
4000	67	66	63	71	79	83	82	79	86	82	84	83	80	78	76	73	70	65	59	51	42	29	9	
5000	65	64	61	69	77	81	79	77	83	79	81	80	77	74	72	68	65	58	51	41	30	13		
6300	62	61	59	66	74	79	77	74	81	77	78	77	74	70	67	63	58	51	41	28	16			
8000	60	59	57	64	72	76	74	72	78	74	75	73	69	66	62	57	51	42	30	13				
10000	58	57	54	62	70	74	72	69	75	70	71	69	65	60	56	50	43	31	16					
12500	56	55	52	59	67	71	69	66	72	67	67	64	60	54	49	41	32	18						
16000	54	53	50	57	65	68	66	63	68	63	63	59	54	47	41	31	20	2						
20000	51	50	47	54	62	65	63	59	64	58	57	53	47	39	31	19	4							
25000	49	48	45	52	59	62	59	55	61	53	51	46	38	29	19	4								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-15

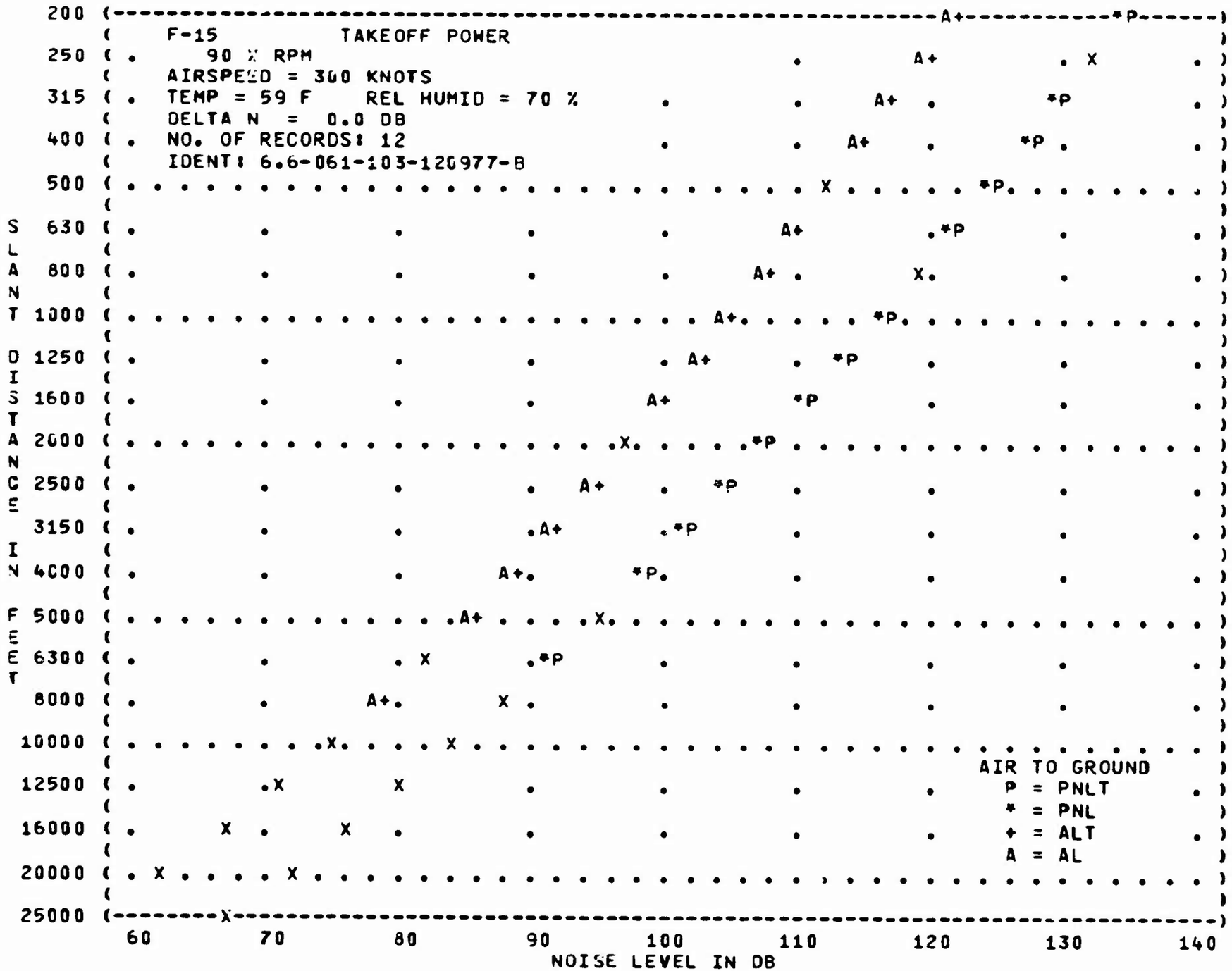
OPERATION:
TAKEOFF POWER
90 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 3.0 DB

A/C CODE: 061
OPS CODE: 103
PROFILE VER: B
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PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	121.2	122.0	134.0	134.8	121.9	123.1	125.7
250	118.8	119.6	131.6	132.5	120.5	121.7	124.4
315	116.4	117.3	129.2	130.1	119.1	120.3	122.9
400	114.0	114.9	126.7	127.5	117.7	118.9	121.4
500	111.6	112.4	124.0	124.9	116.3	117.5	119.8
630	109.2	110.0	121.3	122.2	114.9	116.1	118.1
800	106.7	107.6	118.6	119.4	113.5	114.6	116.3
1000	104.3	105.1	115.6	116.6	112.0	113.2	114.5
1250	101.8	102.7	112.8	113.7	110.5	111.7	112.6
1600	99.2	100.1	109.9	110.8	109.0	110.1	110.6
2000	96.6	97.5	107.0	107.9	107.3	108.5	108.7
2500	93.9	94.7	104.0	104.9	105.6	106.8	106.8
3150	91.1	91.9	101.0	101.9	103.8	105.0	104.7
4000	88.1	88.8	97.9	98.6	101.8	102.8	102.4
5000	85.0	85.5	94.7	95.2	99.7	100.4	99.9
6300	81.8	82.1	91.3	91.7	97.5	98.0	97.3
8000	78.3	78.5	87.8	88.0	95.1	95.3	94.6
10000	74.7	74.7	84.2	84.2	92.4	92.4	91.7
12500	70.8	70.8	80.3	80.3	89.5	89.5	88.8
16000	66.7	66.7	76.1	76.1	86.4	86.4	85.6
20000	62.3	62.3	71.6	71.6	83.0	83.0	82.1
25000	57.6	57.6	66.6	66.6	79.3	79.3	78.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-15 TAKEOFF POWER
90 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-061-103-120977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

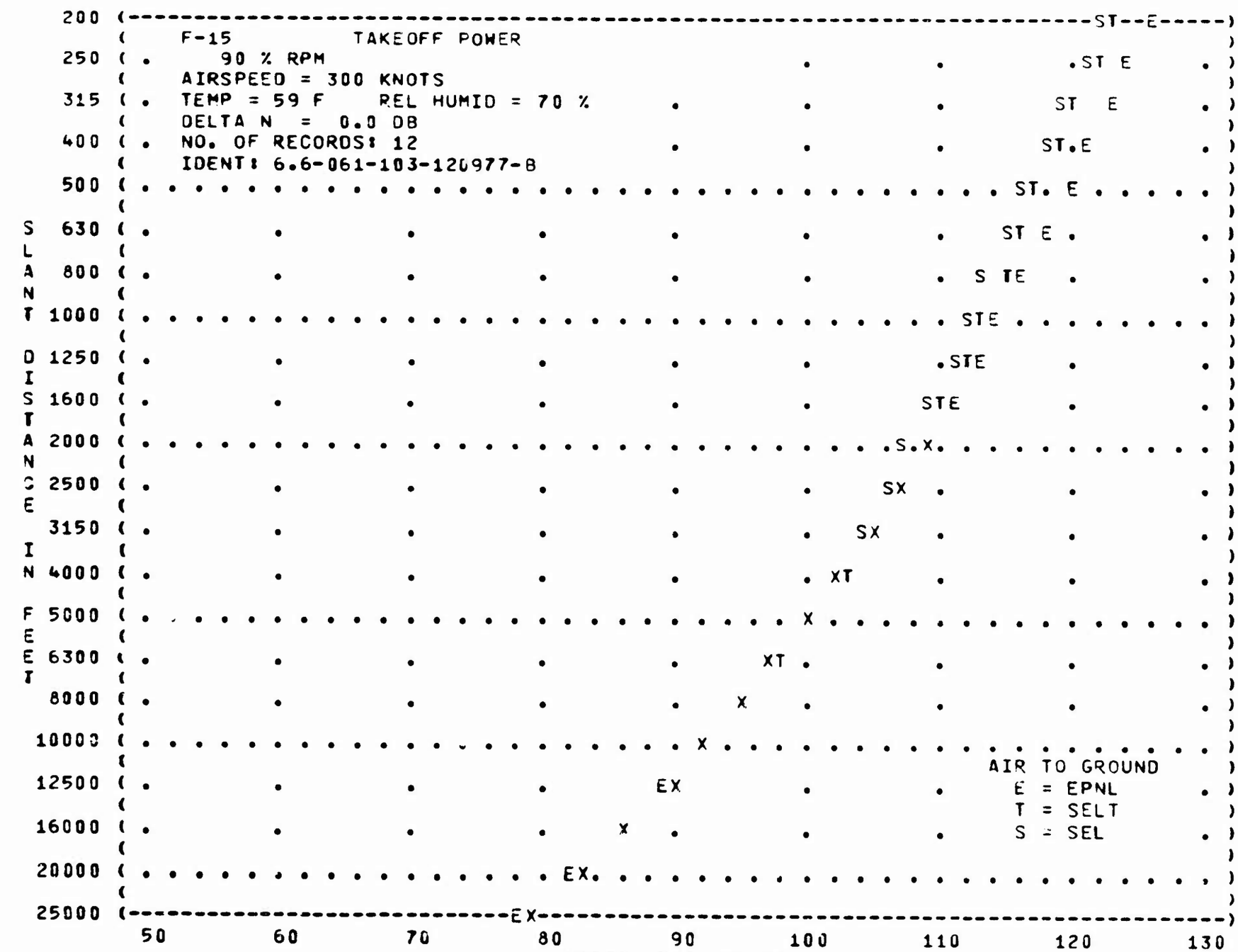

F-15 TAKEOFF POWER
90 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-061-103-120977-B
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-15

OPERATION:
TAKEOFF POWER
90 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 061
OPS CODE: 103
PROFILE VER: B
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PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																						
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	88	87	85	92	100	105	104	101	109	105	108	108	106	105	104	104	103	102	102	102	99	101	104	110
250	86	85	83	90	98	103	102	99	107	103	106	105	104	103	102	102	101	100	99	100	96	98	101	107
315	84	83	81	88	96	101	100	97	105	101	104	103	102	100	100	99	99	97	97	97	94	95	98	103
400	82	81	79	86	94	99	98	95	102	99	101	101	100	98	98	97	97	95	94	95	91	92	94	99
500	80	79	77	84	92	96	95	93	100	97	99	99	98	96	96	95	94	93	92	92	88	89	90	94
630	78	77	75	82	90	94	92	91	98	95	97	97	96	94	94	93	92	90	89	89	85	85	86	88
800	76	75	73	80	87	91	90	88	96	93	95	95	93	92	91	90	89	87	86	86	81	81	81	81
1000	74	73	71	77	84	88	87	85	94<	91	93	93	91	89	89	88	87	85	83	82	77	76	75	73
1250	72	71	67	74	81	85	84	82	91	89	91	91	89	87	86	85	84	81	80	78	73	71	68	64
1600	70	68	64	70	77	81	80	78	88	87	89	88	86	84	84	82	81	78	76	73	68	64	59	52
2000	67	64	60	67	74	78	76	74	84	84	86	86	84	82	81	79	77	74	71	68	62	57	49	39
2500	63	60	56	62	69	73	72	70	80	81	84	83	81	79	78	76	74	70	66	62	55	48	37	22
3150	59	56	52	57	64	68	67	65	76	76	80	81	78	76	75	72	70	65	61	54	47	37	22	1
4000	55	51	46	52	59	63	61	59	71	72	77	77	75	73	71	68	65	60	54	46	37	24	4	
5000	50	46	42	47	54	58	56	54	65	66	72	73	72	69	67	63	60	53	46	36	25	8		
6300	44	41	37	42	49	53	51	49	59	61	68	69	68	65	62	58	53	46	36	23	11			
8000	42	39	35	40	47	51	49	47	56	58	65	65	63	61	57	52	46	37	25	8				
10000	40	37	32	38	45	48	46	44	53	54	61	61	59	55	51	45	38	26	11					
12500	38	35	30	35	42	45	43	41	50	51	57	56	54	49	44	36	27	13						
16000	36	33	28	33	40	43	40	38	46	47	53	51	48	42	36	26	15							
20000	33	30	25	30	37	40	37	34	42	42	47	45	41	34	26	14								
25000	31	28	23	28	34	36	34	30	38	37	41	38	32	24	14									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 061
OPS CODE: 103
PROFILE VER: B
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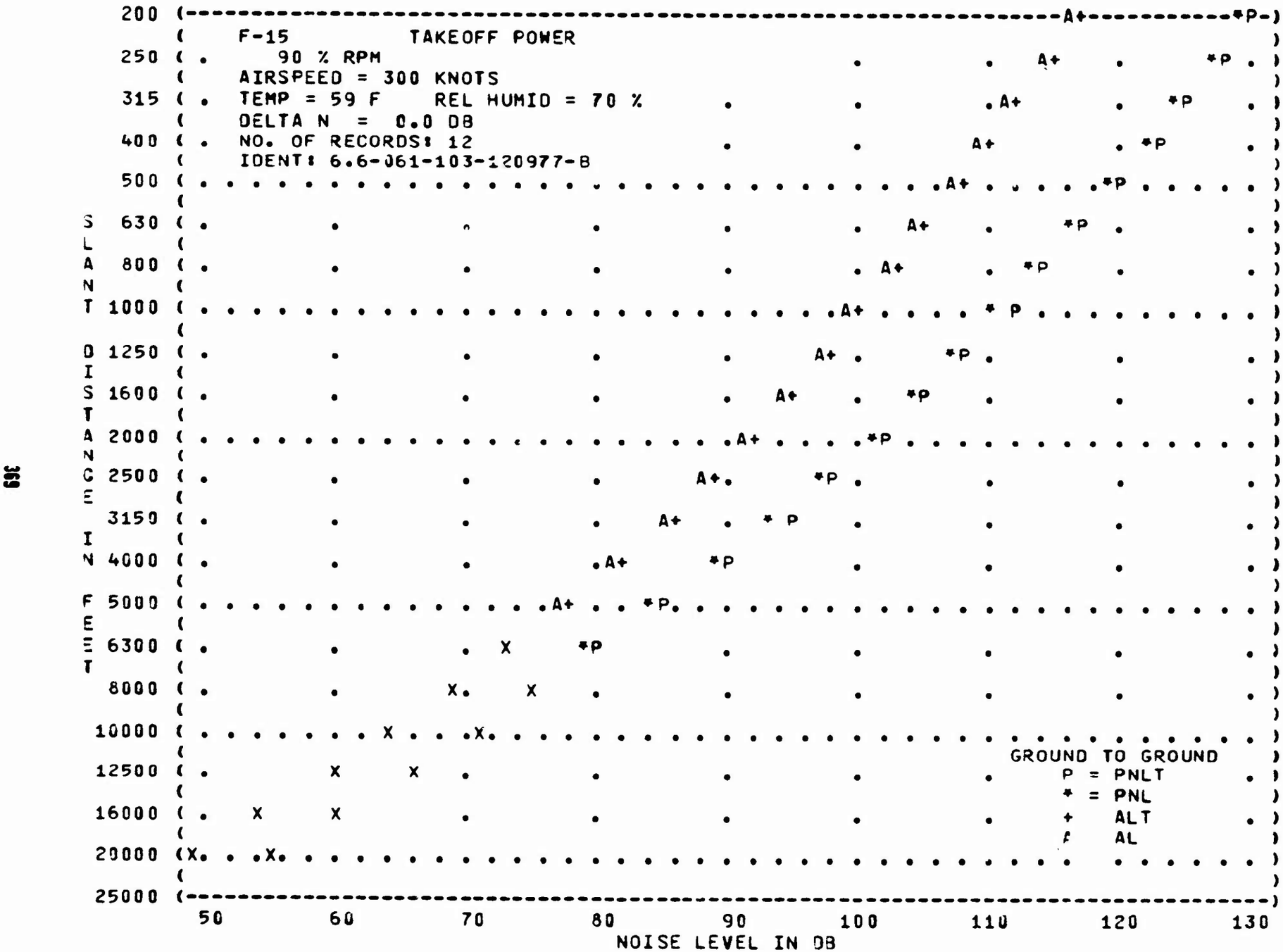
AIRCRAFT: F-15

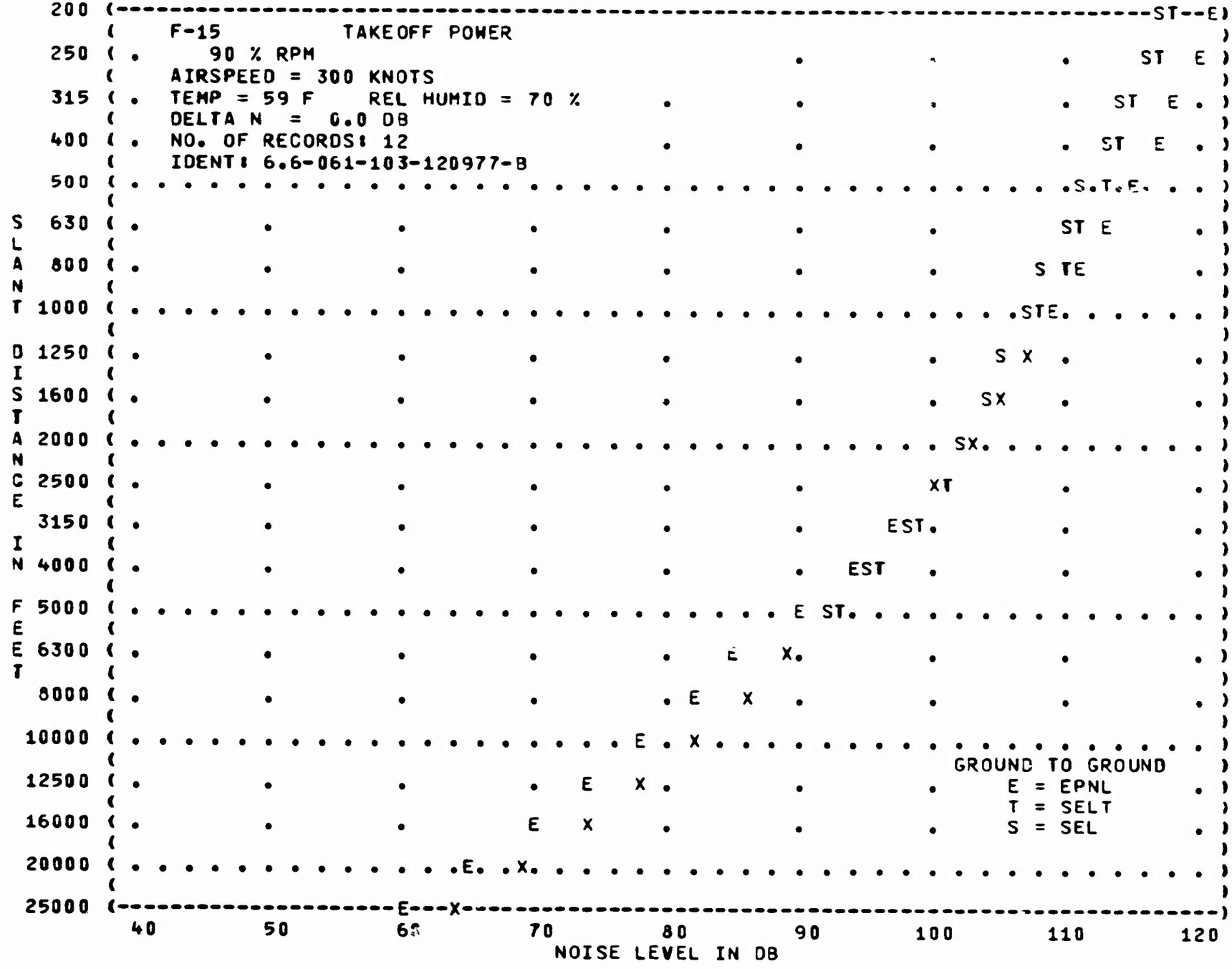
OPERATION:
TAKEOFF POWER
90 % RPM
AIRSPEED = 300 KNOTS

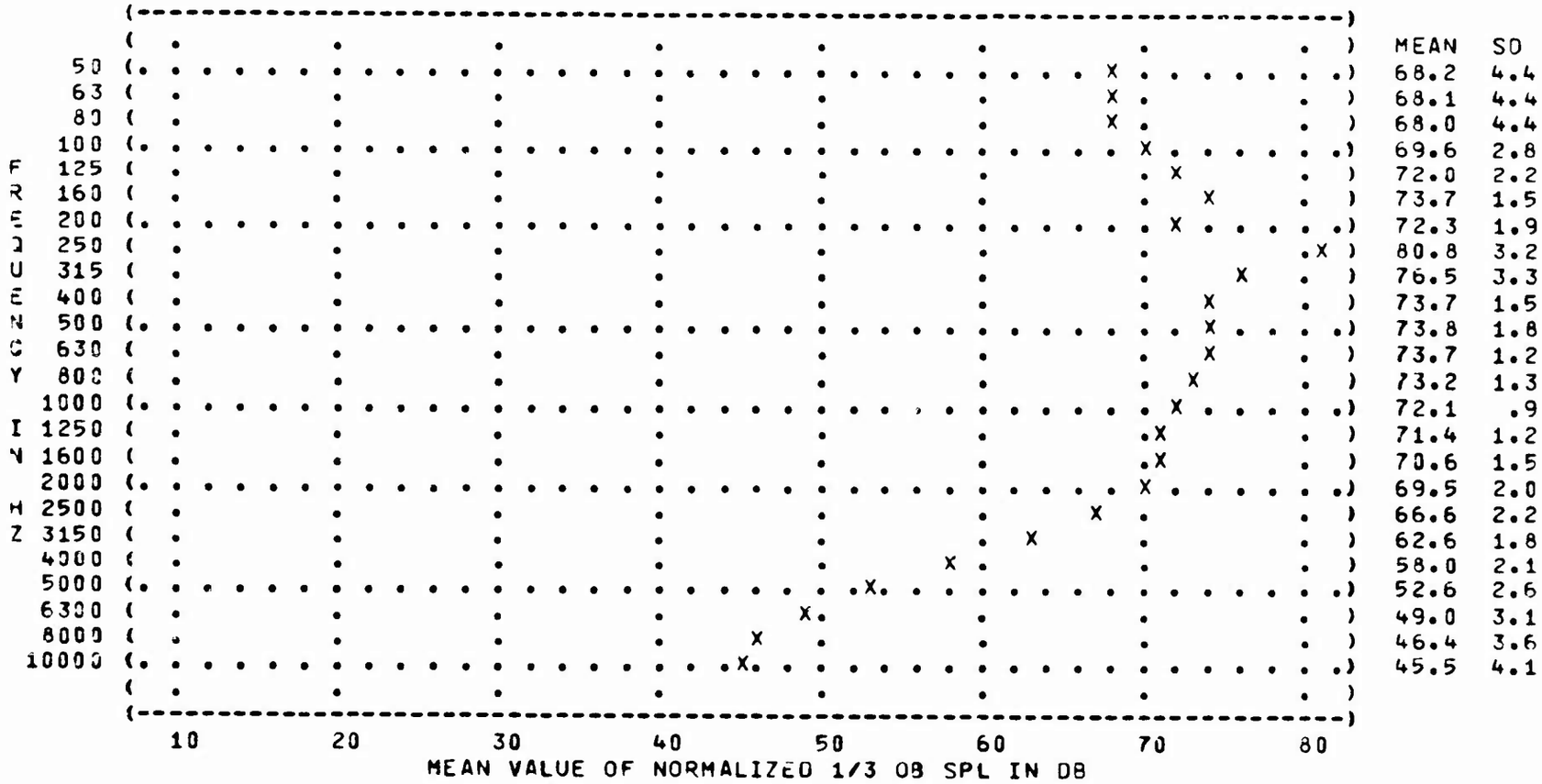
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	116.2	117.2	129.0	130.0	115.9	118.2	120.9
250	113.8	114.8	126.6	127.6	115.5	116.9	119.5
315	111.4	112.4	124.2	125.2	114.1	115.5	118.1
400	109.0	110.0	121.7	122.7	112.7	114.1	116.5
500	106.6	107.6	119.0	120.0	111.3	112.6	114.9
630	104.2	105.2	116.2	117.2	109.9	111.2	113.1
800	101.7	102.7	113.4	114.4	108.4	109.8	111.3
1000	99.2	100.3	110.5	111.5	107.0	108.3	109.4
1250	96.7	97.7	107.4	108.4	105.4	106.7	107.3
1600	94.0	95.0	104.1	105.1	103.7	105.1	105.0
2000	91.3	92.3	100.9	101.9	102.0	103.3	102.8
2500	88.3	89.3	97.4	98.4	100.0	101.4	100.3
3150	85.1	86.1	93.5	94.5	97.8	99.1	97.4
4000	81.4	82.2	89.2	90.0	95.1	96.2	93.8
5000	77.3	77.9	84.4	85.0	92.0	92.8	89.8
6300	72.9	73.3	79.4	79.8	88.6	89.1	85.4
8000	68.8	69.0	75.1	75.3	85.5	85.8	81.9
10000	64.4	64.4	70.6	70.6	82.1	82.1	78.1
12500	59.6	59.6	65.8	65.8	78.3	78.3	74.3
16000	54.3	54.3	60.5	60.5	74.0	74.0	70.0
20000	48.5	48.5	54.7	54.7	69.2	69.2	65.2
25000	42.1	42.1	48.0	48.0	63.8	63.8	59.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-15 TAKEOFF POWER
90 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-061-103-120977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ ALT
A AL


F-15 TAKEOFF POWER
90 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-061-103-120977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-15 CRUISE POWER 73.5 % RPM

AIRSPEED = 280 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 12

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-061-104-120977

PNLT = 94.5 PNDB
PNL = 93.5 PNDB
ALT = 82.8 DBA
AL = 81.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-15

OPERATION:
CRUISE POWER
73.5 % RPM
AIRSPEED = 280 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 061
OPS CODE: 104
PROFILE VER: B
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SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	82	82	82	84	86	88	87	95	91	86	88	88	88	87	87	87	86	84	81	78	74	73	75	81
250	80	80	80	82	84	86	85	93	89	86	86	86	86	85	85	84	84	82	79	76	71	71	72	78
315	78	78	78	80	82	84	83	91	87	84	84	84	84	83	83	82	82	79	76	73	69	68	69	74
400	76	76	76	78	80	82	81	89	85	82	82	82	82	81	81	80	79	77	74	71	66	65	66	70
500	74	74	74	76	78	80	78	87	83	80	80	80	80	79	78	78	77	75	71	68	63	61	62	65
630	72	72	72	74	76	78	76	85	81	78	78	78	78	77	76	76	75	72	69	65	60	58	57	60
800	70	70	70	72	74	76	74	83	79	76	76	76	75	74	74	73	72	69	66	62	56	54	52	53
1000	68	68	68	70	72	74	72	81<	76	74	74	74	73	72	71	71	70	67	63	58	53	49	46	45
1250	66	66	66	68	70	72	70	79	74	72	72	71	71	70	69	68	67	64	59	54	48	44	40	36
1600	64	64	64	65	68	70	68	77	72	69	69	69	68	67	66	65	64	60	55	49	43	37	31	25
2000	62	62	62	63	66	67	66	74	70	67	67	67	66	65	64	62	60	57	51	44	37	30	22	12
2500	60	60	60	61	64	65	64	72	68	65	65	64	63	62	61	59	57	52	46	38	31	21	10	
3150	58	58	58	59	62	63	62	70	65	62	62	62	61	59	57	55	53	48	41	31	23	11		
4000	56	56	56	57	59	61	59	68	63	60	60	59	58	56	54	51	48	42	34	23	13			
5000	54	54	54	55	57	59	57	65	61	57	57	56	54	52	50	47	43	36	26	13	2			
6300	52	52	51	53	55	56	55	63	58	55	54	53	51	48	45	42	37	29	17	1				
8000	50	49	49	51	53	54	52	60	55	52	51	49	47	44	40	36	30	20	6					
10000	48	47	47	48	50	52	50	58	52	48	47	45	43	39	35	29	22	10						
12500	45	45	45	46	48	49	47	55	49	45	43	41	37	33	28	21	12							
16000	43	43	42	43	45	46	44	51	46	41	39	36	32	26	20	11								
20000	41	40	40	41	43	43	41	48	42	37	34	30	25	18	10									
25000	39	38	37	38	40	40	37	44	37	32	28	23	17	8										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-15

OPERATION:
CRUISE POWER
73.5 % RPM

AIRSPEED = 280 KNOTS

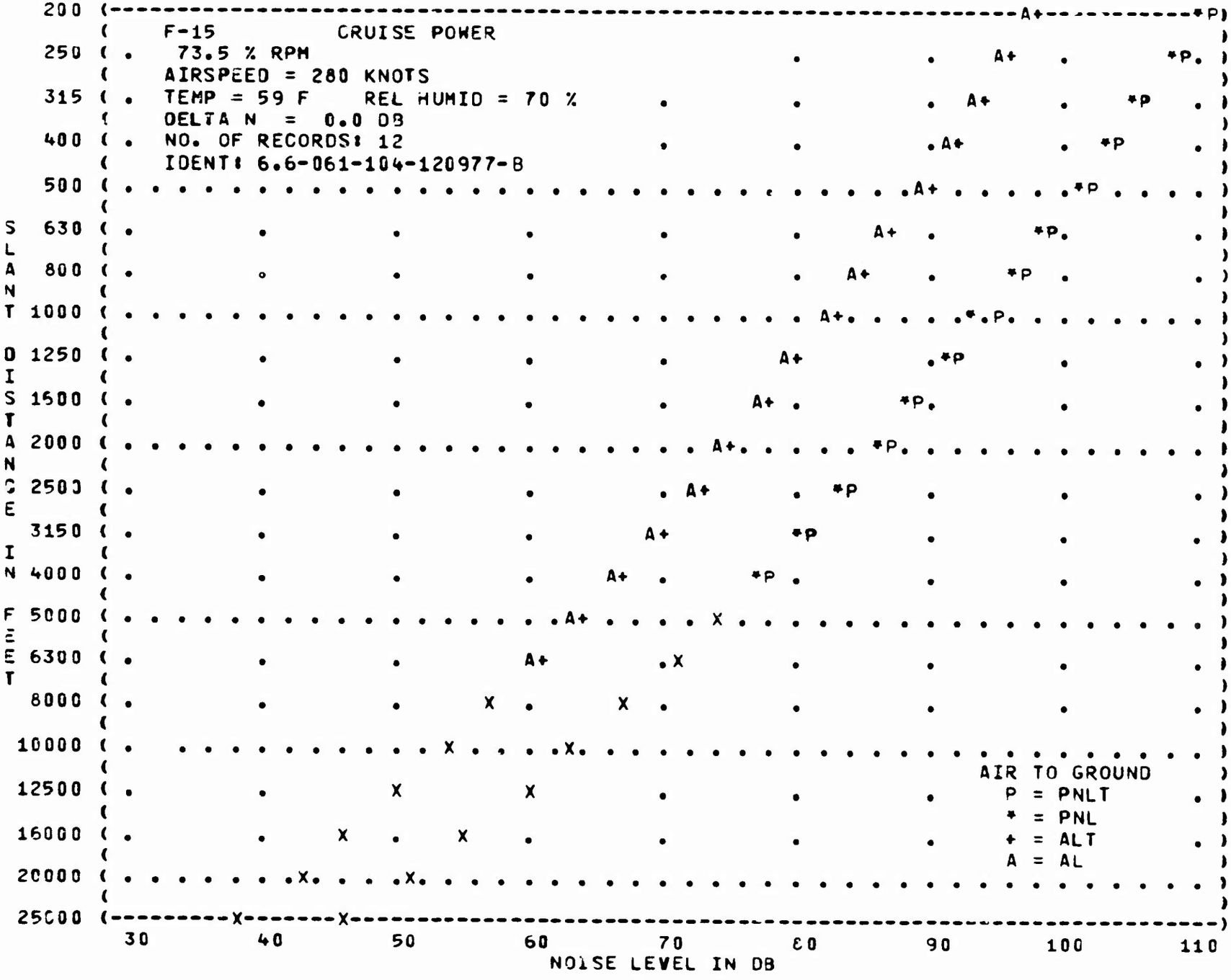
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

DELTA N = 0.0 DB

A/C CODE: 061
OPS CODE: 104
PROFILE VER: B
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	97.2	98.3	109.8	110.9	97.1	98.1	100.4
250	95.1	96.2	107.6	108.7	96.0	96.9	99.1
315	92.9	94.0	105.4	106.4	94.8	95.8	97.9
400	90.8	91.9	103.0	104.1	93.7	94.6	96.6
500	88.6	89.7	100.7	101.8	92.5	93.4	95.2
630	86.3	87.4	98.4	99.4	91.2	92.2	93.9
800	84.1	85.1	96.0	97.0	90.0	90.9	92.5
1000	81.7	82.8	93.5	94.5	88.6	89.6	91.0
1250	79.3	80.4	90.9	92.0	87.2	88.2	89.4
1600	76.9	78.0	88.3	89.4	85.8	86.7	87.8
2000	74.3	75.4	85.6	86.7	84.2	85.2	86.2
2500	71.7	72.8	82.8	83.9	82.6	83.6	84.4
3150	69.0	70.1	79.9	81.0	80.9	81.8	82.5
4000	66.1	67.0	76.9	77.8	79.0	79.8	80.3
5000	63.2	63.8	73.8	74.4	77.1	77.7	77.9
6300	60.1	60.6	70.5	71.0	75.0	75.4	75.5
8000	57.0	57.2	67.1	67.4	72.8	73.0	72.9
10000	53.6	53.6	63.5	63.5	70.5	70.5	70.1
12500	50.1	50.1	59.6	59.6	68.0	68.0	67.2
16000	46.5	46.5	55.4	55.4	65.4	65.4	63.9
20000	42.6	42.6	50.9	50.9	62.5	62.5	60.5
25000	38.4	38.4	45.9	45.9	59.3	59.3	56.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-15 CRUISE POWER
73.5 % RPM
AIRSPEED = 280 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-061-104-120977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

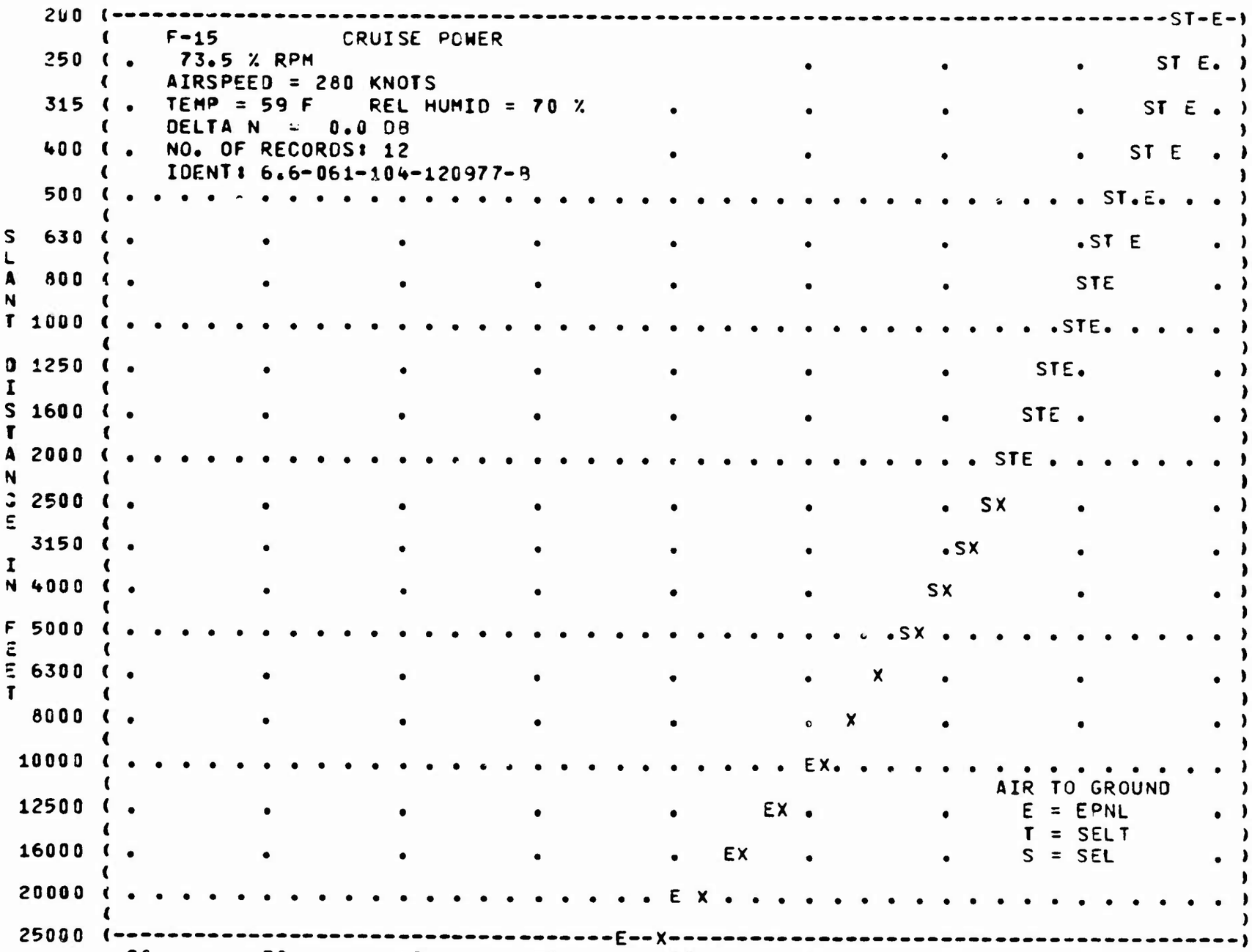

F-15 CRUISE POWER
73.5 % RPM
AIRSPEED = 280 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-061-104-120977-B
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-15

OPERATION:
CRUISE POWER
73.5 % RPM
AIRSPEED = 280 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 061
OPS CODE: 104
PROFILE VER: B
12 SEP 77
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	77	77	77	79	81	83	82	90	86	83	83	83	83	82	82	82	81	79	76	73	69	66	70	76
250	75	75	75	77	79	81	80	88	84	81	81	81	81	80	80	79	79	77	74	71	66	66	67	73
315	73	73	73	75	77	79	78	86	82	79	79	79	79	78	78	77	77	74	71	68	64	63	64	69
400	71	71	71	73	75	77	75	84	80	77	77	77	77	75	76	75	74	72	69	66	61	60	61	65
500	69	69	69	71	73	74	73	82	78	75	75	75	75	74	73	73	72	70	66	63	58	56	57	60
630	67	67	67	69	70	72	70	79	76	73	73	73	73	72	71	71	70	67	64	60	55	53	52	55
800	65	65	65	66	68	69	68	77	74	71	71	71	70	69	69	68	67	64	61	57	51	49	47	48
1000	63	63	63	63	65	66	65	74<	71	69	69	69	68	67	66	66	65	62	58	53	48	44	41	40
1250	61	61	60	60	62	63	61	70	68	67	67	66	66	65	64	63	62	59	54	49	43	39	35	31
1600	59	58	57	57	58	59	58	67	65	64	64	64	63	62	61	60	59	55	50	44	38	32	26	20
2000	56	54	53	53	54	56	54	63	62	62	62	62	61	60	59	57	55	52	46	39	32	25	17	7
2500	53	50	49	49	50	51	50	59	58	58	60	59	58	57	56	54	52	47	41	33	26	16	5	
3150	49	46	44	44	45	46	45	54	53	54	56	57	56	54	52	50	48	43	36	26	18	6		
4000	44	41	39	38	40	41	39	48	48	49	52	53	53	51	49	46	43	37	29	18	8			
5000	39	36	34	33	35	36	34	43	42	44	48	49	49	47	45	42	38	31	21	8				
6300	34	32	29	29	30	31	29	38	36	39	44	45	45	43	40	37	32	24	12					
8000	32	29	27	27	28	29	27	35	33	36	41	41	41	39	35	31	25	15	1					
10000	30	27	25	24	25	26	24	33	30	32	37	37	37	34	30	24	17	5						
12500	27	25	23	22	23	24	21	30	27	29	33	33	31	28	23	16	7							
16000	25	23	20	19	20	21	18	26	24	25	29	28	26	21	15	6								
20000	23	20	18	17	18	18	15	23	20	21	24	22	19	13	5									
25000	21	18	15	14	15	15	12	19	15	16	18	15	11	3										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-15

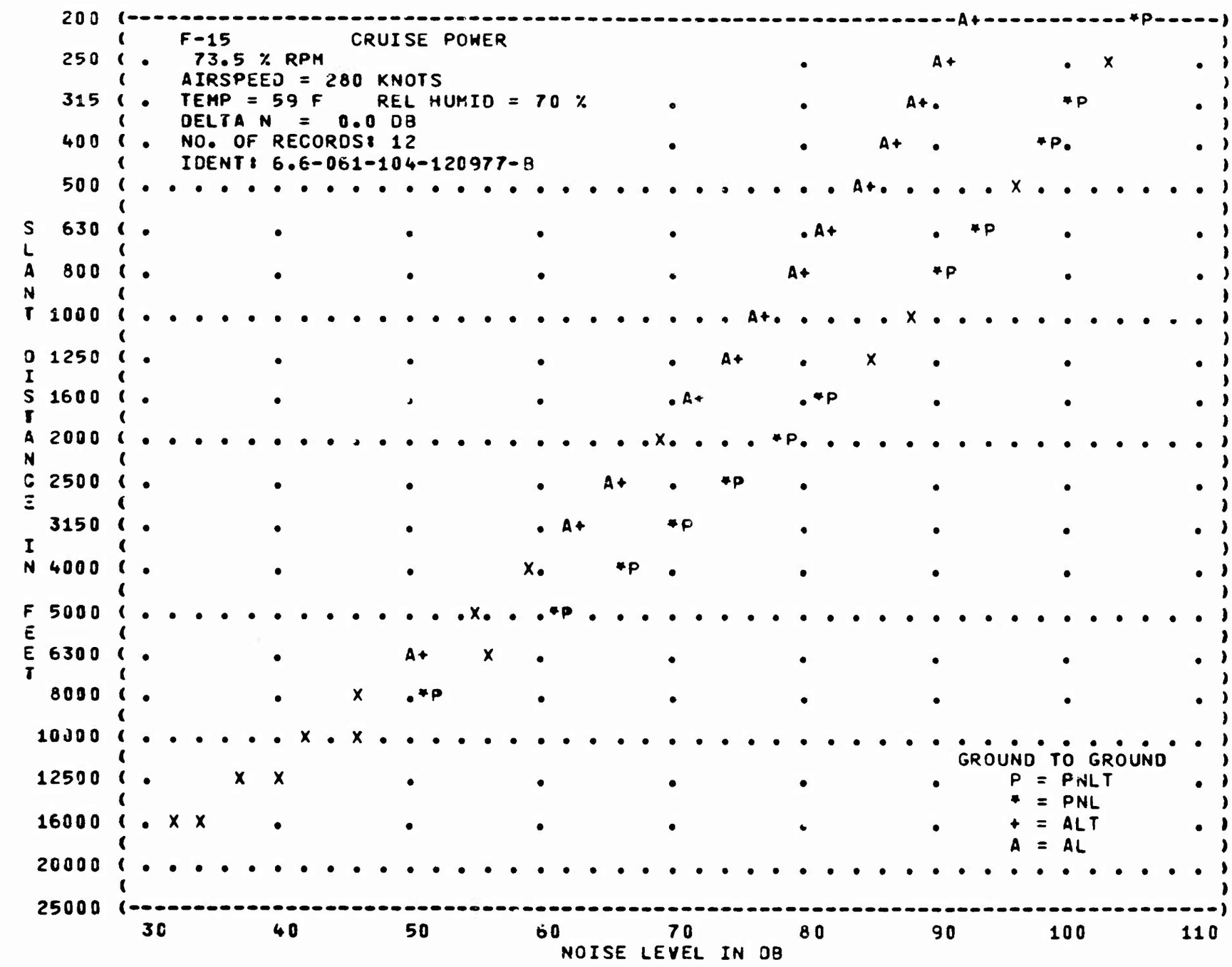
OPERATION:
CRUISE POWER
73.5 % RPM
AIRSPEED = 280 KNOTS

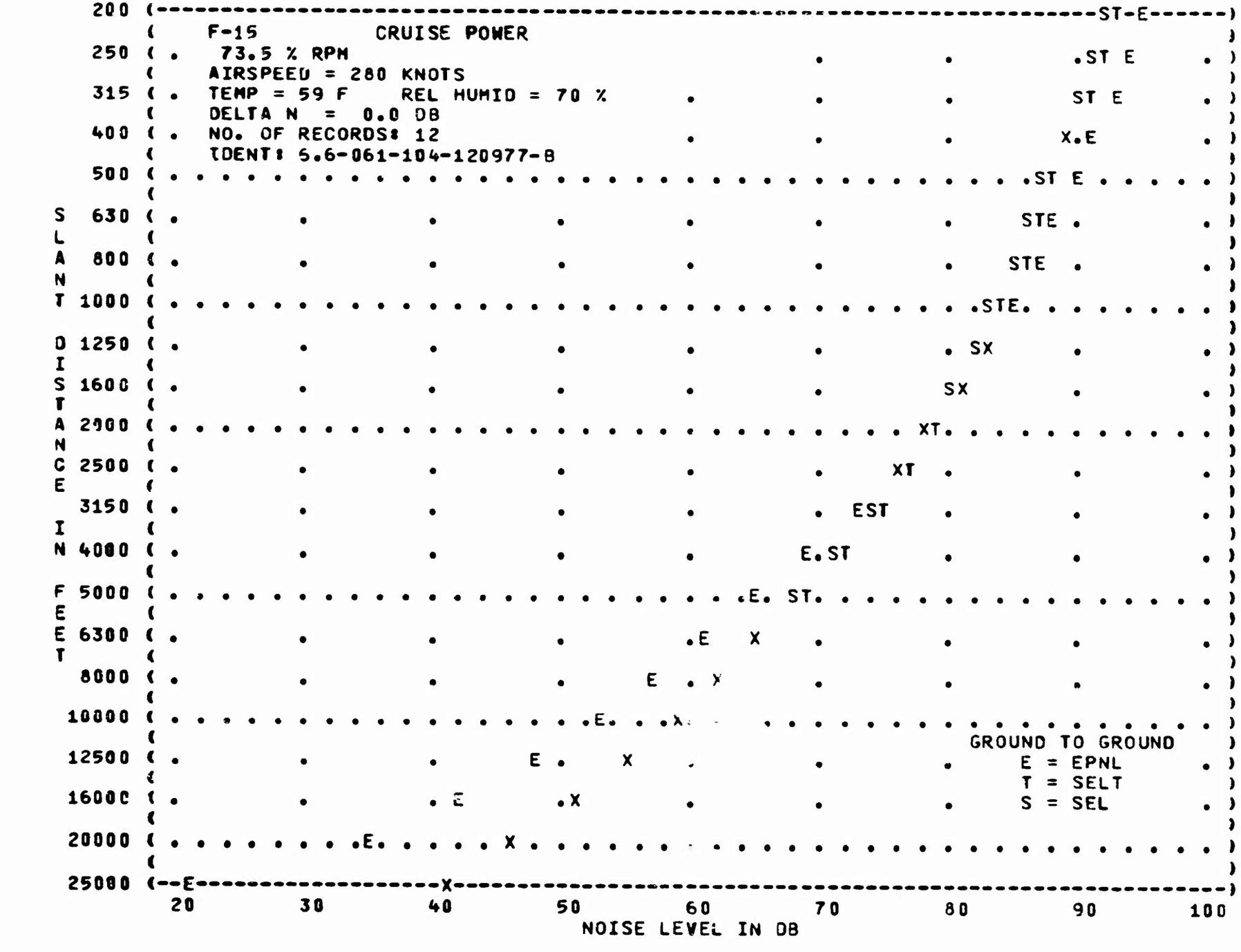
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

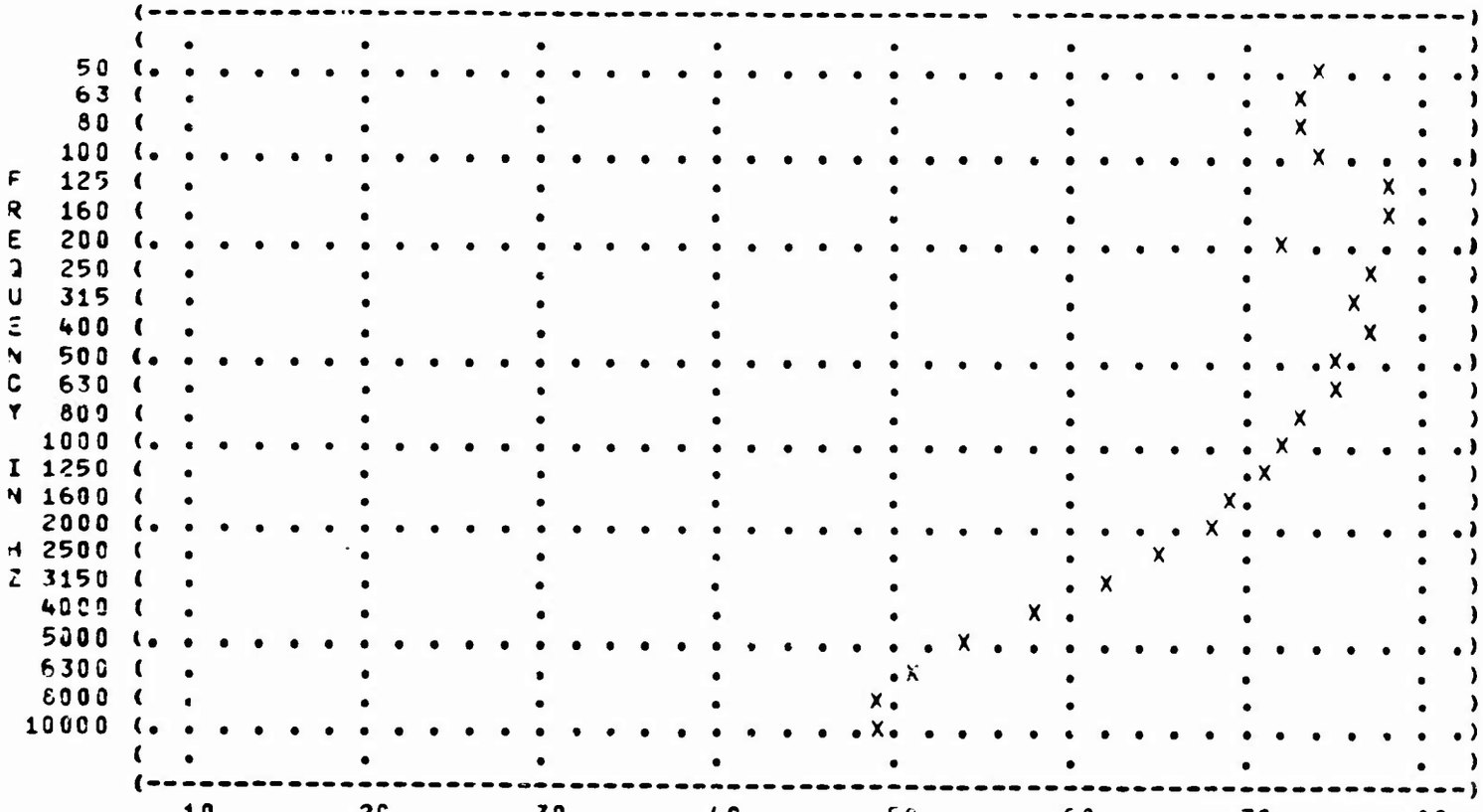
A/C CODE: 061
OPS CODE: 104
PROFILE VER: B
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PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	92.2	93.2	104.8	105.7	92.1	92.9	95.2
250	90.1	91.0	102.6	103.5	91.0	91.8	94.0
315	87.9	88.9	100.3	101.2	89.8	90.7	92.7
400	85.8	86.7	98.0	98.9	88.7	89.5	91.4
500	83.6	84.5	95.5	96.5	87.5	88.3	89.9
630	81.3	82.2	93.0	94.0	86.2	87.0	88.4
800	78.9	79.9	90.4	91.3	84.8	85.6	86.8
1000	76.5	77.4	87.5	88.5	83.4	84.2	84.9
1250	73.9	74.9	84.6	85.5	81.8	82.7	82.9
1600	71.3	72.2	81.4	82.3	80.2	81.0	80.8
2000	68.5	69.4	77.9	78.9	78.4	79.2	78.3
2500	65.5	66.4	74.2	75.1	76.4	77.2	75.6
3150	62.2	63.2	70.2	71.1	74.1	74.9	72.6
4000	58.6	59.3	65.8	66.6	71.5	72.1	69.0
5000	54.5	55.1	61.0	61.6	68.4	68.9	65.1
6300	50.1	50.5	56.0	56.4	65.0	65.3	60.9
8000	46.0	46.2	51.4	51.6	61.9	62.1	57.1
10000	41.6	41.6	46.0	46.0	58.5	58.5	52.6
12500	36.8	36.8	40.2	40.2	54.7	54.7	47.8
16000	31.6	31.6	33.6	33.6	50.5	50.5	42.2
20000	26.0	26.0	25.8	25.8	45.9	45.9	35.4
25000	19.9	19.9	10.2	10.2	40.8	40.8	20.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-15 CRUISE POWER
73.5 % RPM
AIRSPEED = 280 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-061-104-120977-B
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB


F-15 CRUISE POWER
73.5 % RPM
AIRSPEED = 280 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 5.6-061-104-120977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-15 APPROACH POWER 75 % RPM

AIRSPEED = 170 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-061-105-120977

PNLT = 94.0 PNDB
PNL = 93.5 PNDB
ALT = 82.2 OBA
AL = 81.6 OBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 061
OPS CODE: 105
PROFILE VER: B
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AIRCRAFT: F-15

OPERATION: APPROACH POWER, 75 % RPM, AIRSPEED = 170 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	88	87	87	88	92	92	86	91	90	92	90	89	88	87	87	85	84	82	80	79	76	76	79	87
250	86	85	85	86	90	90	84	89	88	90	88	87	86	85	84	83	82	80	78	77	73	73	76	83
315	84	83	83	84	88	88	82	87	86	88	86	85	84	83	82	81	80	78	76	74	70	70	73	79
400	82	81	81	82	86	86	80	85	84	86	84	83	82	81	80	79	78	75	73	71	68	67	69	75
500	80	79	79	80	84	84	78	83	82	84	81	81	80	79	78	76	75	73	71	69	65	64	65	70
630	78	77	77	78	82	82	76	81	80	81	79	79	78	76	76	74	73	70	68	66	61	60	61	64
800	76	75	75	76	80	80	74	79	78	79	77	77	76	74	73	71	70	68	65	62	58	56	55	57
1000	74	73	73	74	78	78	72	77<	76	77	75	75	73	72	71	69	68	65	62	58	54	51	49	49
1250	72	71	71	72	76	75	70	75	74	75	73	72	71	69	68	66	65	62	58	54	49	45	42	39
1600	70	69	69	70	74	73	67	73	72	73	71	70	69	67	66	63	62	58	54	50	44	39	33	28
2000	68	67	67	68	71	71	65	71	70	71	68	68	66	64	63	60	59	54	50	44	38	31	23	14
2500	66	65	65	66	69	69	63	68	67	68	66	65	63	61	60	57	55	50	45	38	31	22	11	
3150	64	63	63	64	67	67	61	66	65	66	63	62	61	58	57	53	51	45	39	31	22	11		
4000	62	61	60	62	65	65	59	64	63	63	61	60	58	55	53	49	46	40	32	22	12			
5000	60	59	58	60	63	63	56	62	60	61	58	57	54	51	49	45	40	33	24	11	0			
6300	57	57	56	57	61	60	54	59	57	58	55	53	51	47	44	39	34	26	14					
8000	55	55	54	55	58	58	51	56	55	55	52	50	47	43	39	33	27	16	3					
10000	53	52	52	53	56	55	49	54	52	52	48	46	42	37	33	26	18	5						
12500	51	50	49	50	53	53	46	51	48	48	44	41	37	31	26	17	7							
16000	49	48	47	48	51	50	43	47	45	44	39	36	30	24	17	6								
20000	46	45	45	45	48	47	40	44	41	39	34	30	23	15	7									
25000	44	43	42	43	45	44	36	40	36	34	28	22	15	5										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-15

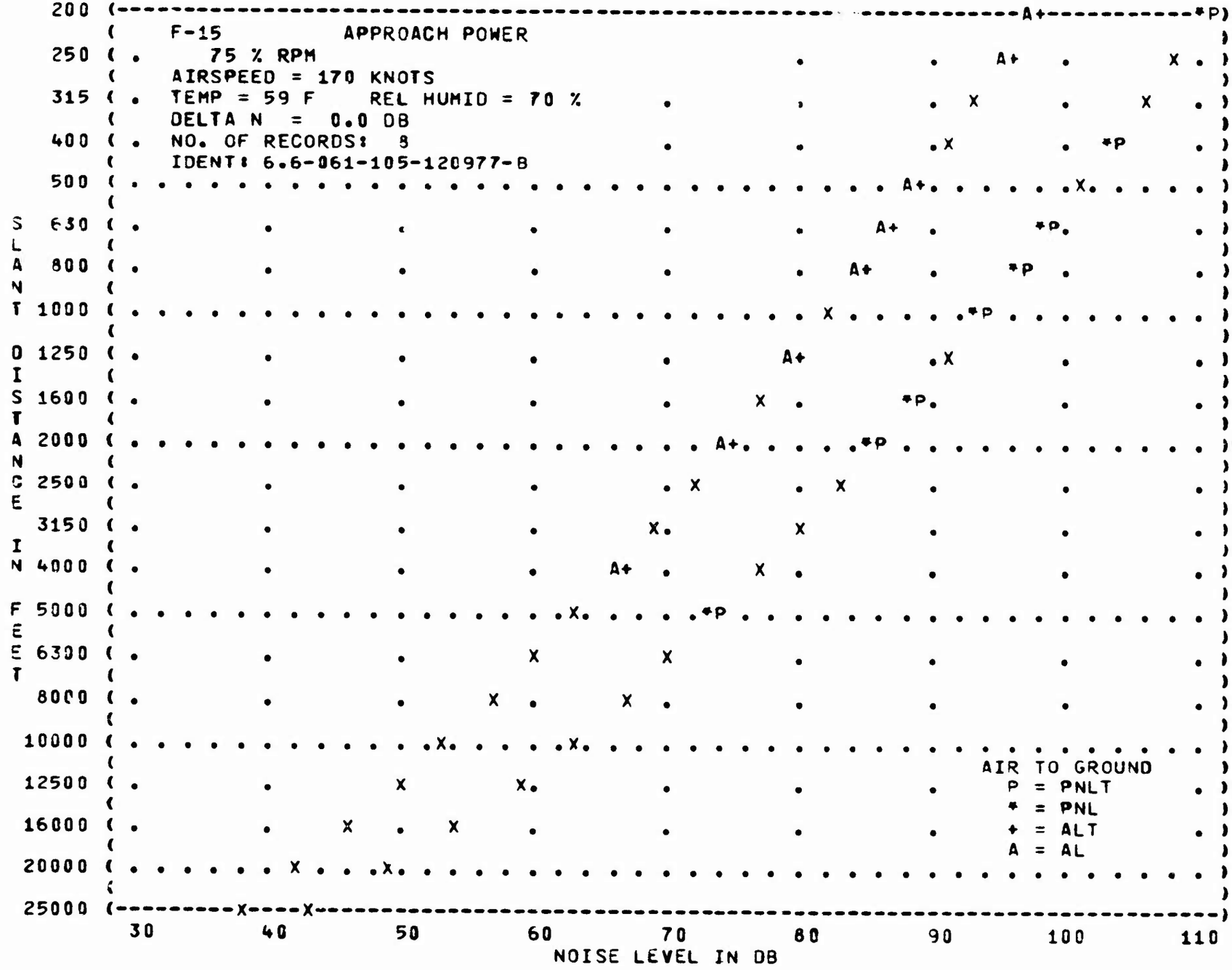
OPERATION:
APPROACH POWER
75 % RPM
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 061
OPS CODE: 105
PROFILE VER: B
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PAGE I4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	97.3	97.8	110.1	110.7	97.4	98.1	100.9
250	95.1	95.6	107.9	108.4	96.3	96.9	99.7
315	92.9	93.5	105.6	106.1	95.1	95.8	98.4
400	90.7	91.3	103.2	103.8	93.9	94.6	97.0
500	88.5	89.0	100.9	101.4	92.6	93.3	95.7
630	86.2	86.8	98.5	99.0	91.4	92.1	94.2
800	84.0	84.5	96.0	96.6	90.1	90.8	92.8
1000	81.6	82.2	93.5	94.0	88.8	89.5	91.2
1250	79.3	79.8	90.8	91.4	87.4	88.1	89.6
1600	76.8	77.3	88.1	88.7	86.0	86.6	87.9
2000	74.3	74.8	85.4	85.9	84.4	85.1	86.1
2500	71.7	72.2	82.5	83.1	82.9	83.5	84.3
3150	69.0	69.5	79.6	80.2	81.1	81.8	82.4
4000	66.1	66.6	76.6	77.0	79.3	79.8	80.2
5000	63.2	63.5	73.4	73.7	77.3	77.7	77.9
6300	60.1	60.3	70.1	70.3	75.2	75.5	75.4
8000	56.8	56.9	66.5	66.6	73.0	73.1	72.7
10000	53.4	53.4	62.8	62.8	70.6	70.6	69.8
12500	49.8	49.8	58.6	58.6	68.0	68.0	66.7
16000	46.0	46.0	54.1	54.1	65.2	65.2	63.2
20000	42.0	42.0	49.2	49.2	62.1	62.1	59.3
25000	37.7	37.7	43.5	43.5	58.9	58.9	54.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-15 APPROACH POWER
75 % RPM
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-061-105-120977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

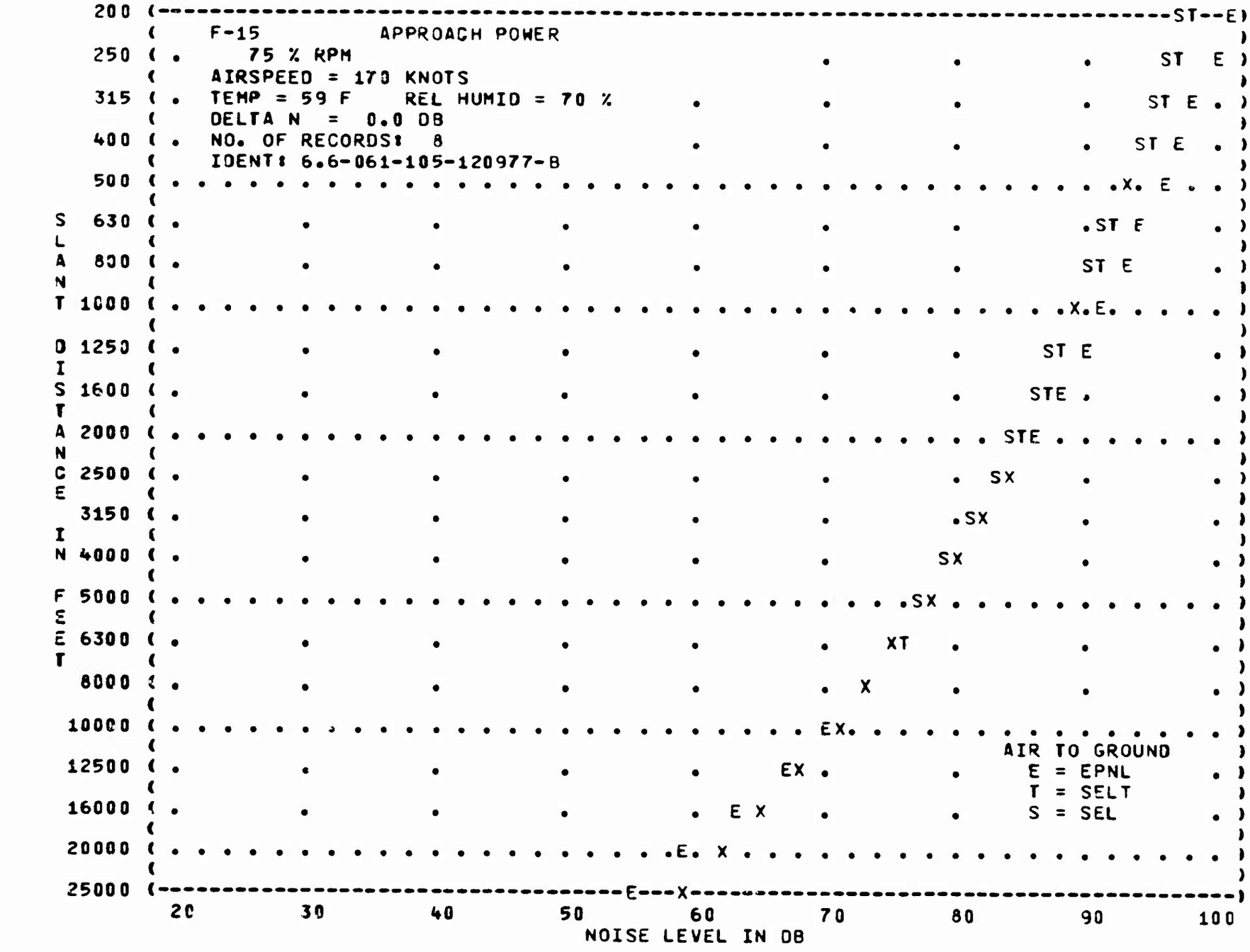

F-15 APPROACH POWER
75 % RPM
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-061-105-120977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 061
OPS CODE: 105
PROFILE VER: B
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PAGE L4

AIRCRAFT: F-15

OPERATION:
APPROACH POWER
75 % RPM
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	83	82	82	83	87	87	81	86	85	87	85	84	83	82	82	80	79	77	75	74	71	71	74	82
250	81	80	80	81	85	85	79	84	83	85	83	82	81	80	79	78	77	75	73	72	68	68	71	78
315	79	78	78	79	83	83	77	82	81	83	81	80	79	78	77	76	75	73	71	69	65	65	68	74
400	77	76	76	77	81	81	75	80	79	81	79	78	77	76	75	74	73	70	68	66	63	62	64	70
500	75	74	74	75	79	78	72	78	77	79	76	76	75	74	73	71	70	68	66	64	60	59	60	65
630	73	72	72	73	76	75	70	76	75	76	74	74	73	71	71	69	68	65	63	61	56	55	56	59
800	71	70	70	71	73	73	67	73	73	74	72	72	71	69	68	66	65	63	60	57	53	51	50	52
1000	69	68	68	68	70	70	64	70	71	72	70	70	68	67	66	64	63	60	57	53	49	46	44	44
1250	67	66	65	65	67	67	61	67	68	70	68	67	66	64	63	61	60	57	53	49	44	40	37	34
1600	65	63	61	61	64	63	57	63	65	68	66	65	64	62	61	58	57	53	49	45	39	34	28	23
2000	62	60	58	58	60	59	53	59	61	66	63	63	61	59	58	55	54	49	45	39	33	26	18	9
2500	58	56	54	53	56	55	49	55	57	62	61	60	58	56	55	52	50	45	40	33	26	17	6	
3150	54	51	49	48	51	50	44	50	53	58	57	57	56	53	52	48	46	40	34	26	17	6		
4000	50	46	44	43	45	44	38	44	47	53	54	54	53	50	48	44	41	35	27	17	7			
5000	45	41	39	38	40	40	33	39	41	47	49	50	49	46	44	40	35	28	19	6				
6300	39	37	34	33	36	35	28	34	35	42	45	45	45	42	39	34	29	21	9					
8000	37	35	32	31	33	32	26	31	33	39	42	42	41	38	34	28	22	11						
10000	35	32	30	29	31	30	23	29	30	36	38	38	36	32	28	21	13	0						
12500	33	30	27	26	28	27	20	26	26	32	34	33	31	26	21	12	2							
16000	31	28	25	24	26	24	17	22	23	28	29	28	24	19	12	1								
20000	28	25	23	21	23	21	14	19	19	23	24	22	17	10	2									
25000	26	23	20	19	20	18	11	15	14	18	18	14	9	0										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-15

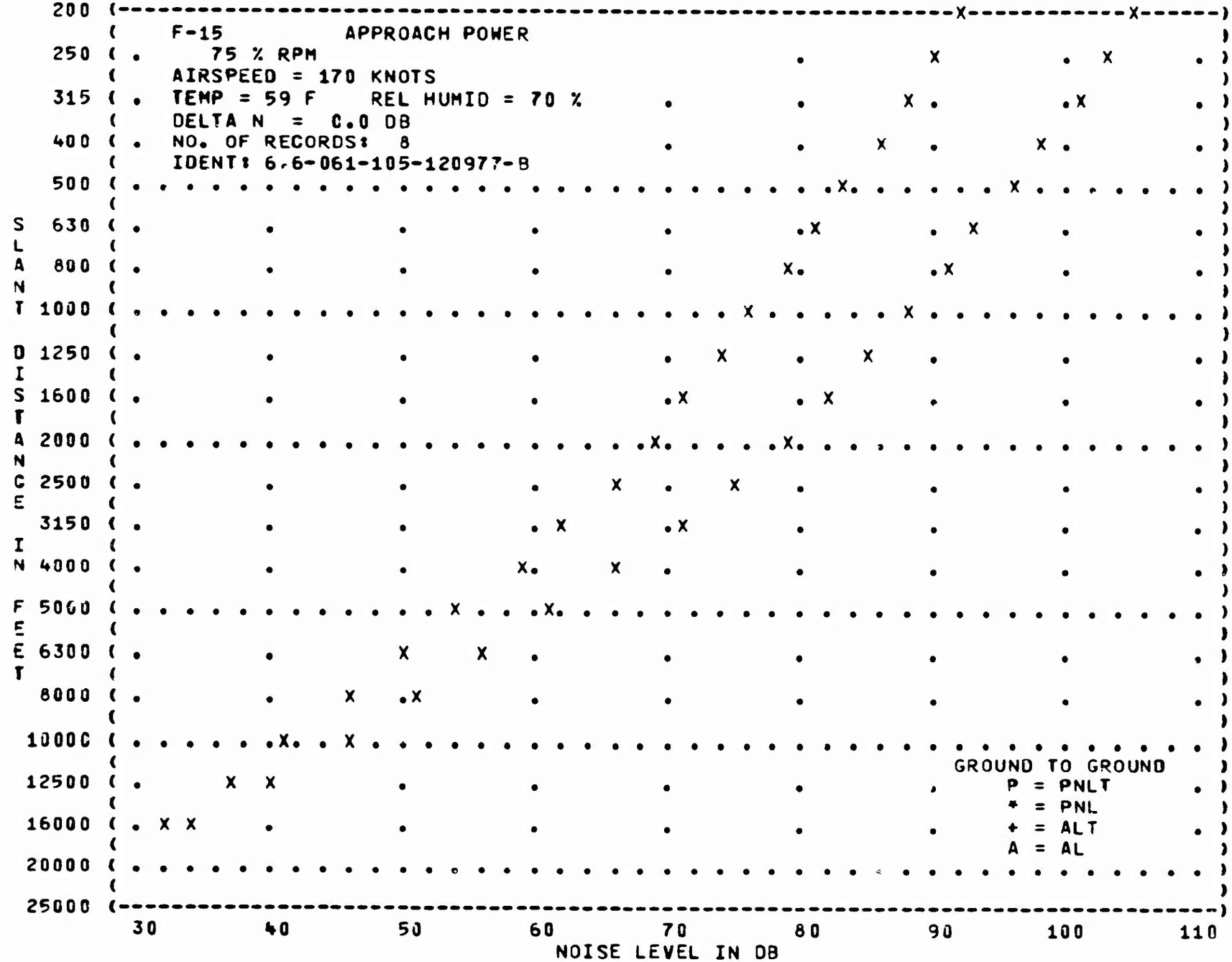
OPERATION:
APPROACH POWER
75 % RPM
AIRSPEED = 170 KNOTS

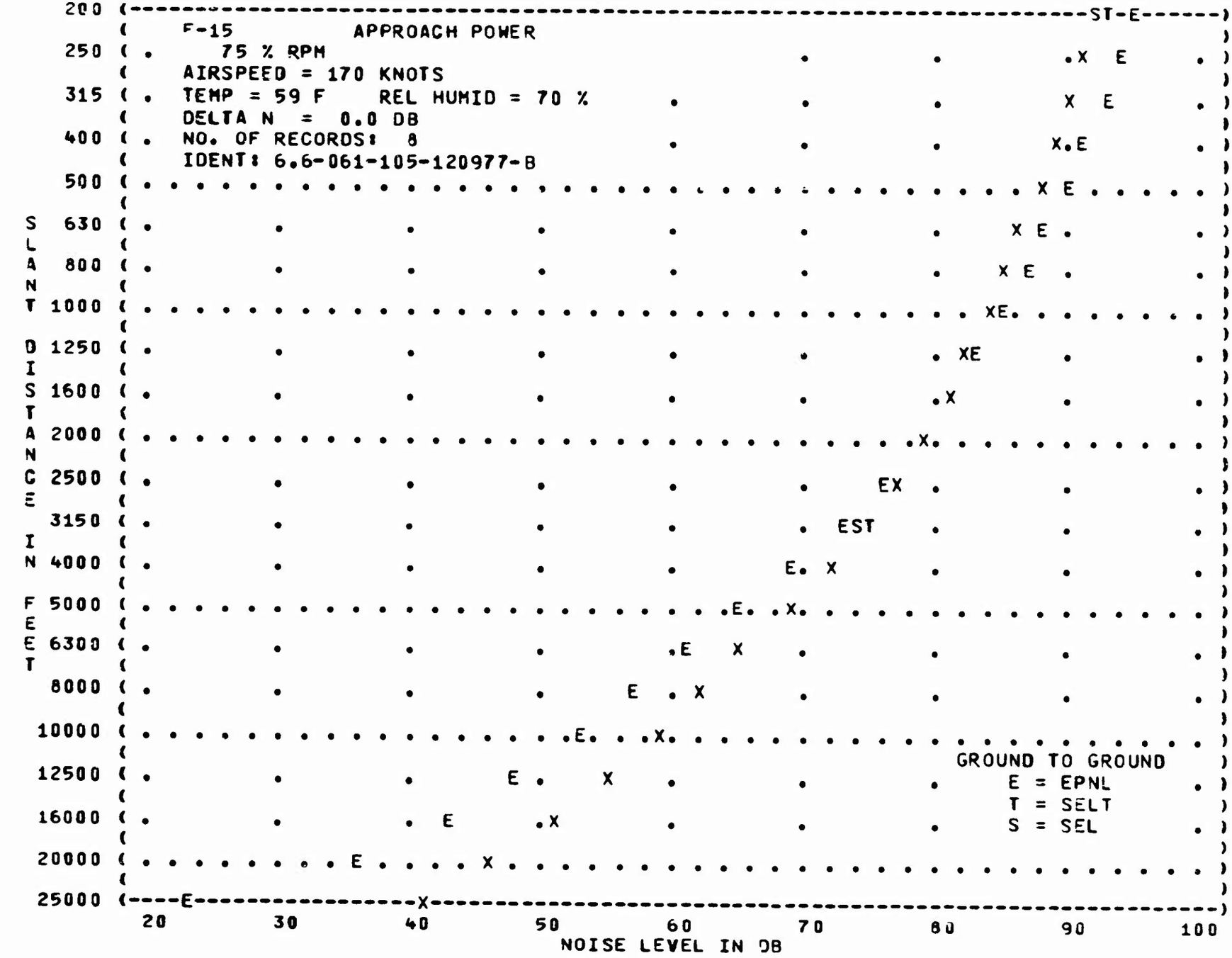
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 061
OPS CODE: 105
PROFILE VER: B
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PAGE M4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	92.3	92.3	105.1	105.1	92.4	92.6	95.3
250	90.1	90.1	102.8	102.8	91.3	91.4	94.0
315	87.9	87.9	100.5	100.5	90.1	90.2	92.7
400	85.7	85.7	98.2	98.2	88.9	89.0	91.4
500	83.5	83.5	95.7	95.7	87.6	87.8	90.0
630	81.2	81.2	93.2	93.2	86.3	86.5	88.5
800	78.9	78.9	90.6	90.6	85.0	85.2	86.9
1000	76.5	76.5	87.9	87.9	83.6	83.8	85.1
1250	74.0	74.0	85.0	85.0	82.1	82.3	83.3
1600	71.4	71.4	82.0	82.0	80.5	80.7	81.3
2000	68.7	68.7	78.9	78.9	78.8	79.0	79.1
2500	65.7	65.7	75.0	75.0	76.8	77.0	76.2
3150	62.3	62.3	70.6	70.6	74.5	74.6	72.8
4000	58.6	58.6	66.1	66.1	71.8	71.9	69.3
5000	54.4	54.4	61.0	61.0	68.6	68.7	65.2
6300	49.9	49.9	55.8	55.8	65.1	65.1	60.9
8000	45.9	45.9	51.3	51.3	62.0	62.1	57.4
10000	41.5	41.5	46.1	46.1	58.7	58.7	53.2
12500	36.7	36.7	40.2	40.2	54.9	54.9	48.2
16000	31.5	31.5	33.6	33.6	50.7	50.7	42.7
20000	25.9	25.9	25.5	25.5	46.0	46.0	35.6
25000	19.7	19.7	12.2	12.2	40.9	40.9	23.3

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-15 APPROACH POWER
75 % RPM
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-061-105-120977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB


F-15 APPROACH POWER
75 % RPM
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-061-105-120977-B
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB

USAF F-15A AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

F-15A AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-004-010
AIRCRAFT CODE: 061
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING — PAGE

63% RPM, 395C FTIT, 950 LBS/HR 390-395
80% RPM, 690C FTIT, 4150 LBS/HR 396-401
INTERMEDIATE (MIL) 90% RPM, 930C FTIT, 7850 LBS/HR . . . 402-407
AFTERBURNER, ZONE 5 90% RPM, 930C FTIT, 39200 LBS/HR . . 408-413

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
  NORMALIZED SPL AT 250 FEET
NOISL LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
  PERCEIVED NOISE LEVEL
  TONE-CORRECTED, PERCEIVED NOISE LEVEL
  A-WEIGHTED OVERALL SOUND LEVEL
  TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

17 DEC 75

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF F-15A AIRCRAFT

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
IDLE, 63% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 01
AIRCRAFT CODE 061
OPERATION CODE 02013
PROFILE VERSION A
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PAGE C1

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	57	59	58	61	61	62	60	59	58	61	61	61	61	63	64	63	63	61	61
63	59<	60<	59<	61<	62<	62<	61<	59<	59<	61<	61<	62<	62<	63<	64<	64<	64<	61<	60<
80	60<	61<	61<	62<	63<	63<	62<	60<	61<	61<	61<	62<	63<	63<	65<	64<	65<	61<	60<
100	61	62	62	63	64	64	63	61	62<	61	61	63	64	64	65	64	66	61	59<
125	63	63	63	64	64	63	62	63	63<	62	64	64	66	65	65	64	66	63<	59<
160	65	65	66	66	65	65	66	66	64	67	67	69	70	70	70	68	70	65	59
200	65	65	65	62	61	62	61	62	61	64	64	66	66	66	68	66	65	61	54
250	66	67	64	62	63	62	61	60	61	61	63	65	67	68	67	67	64	60	56
315	65	65	63	61	62	59	60	58	60	59	62	64	68	66	67	65	64	60	56
400	67	68	65	64	62	60	61	58	60	60	62	65	65	65	66	67	65	60	60
500	66	65	63	62	60	56	56	53	56	57	60	61	64	63	64	63	61	56	56
630	67	65	64	62	58	57	55	52	55	56	60	60	65	65	65	63	61	57	58
800	68	66	67	64	59	60	58	55	57	59	60	61	63	64	65	65	63	60	58
1000	68	65	64	61	57	57	55	53	54	55	56	58	61	63	63	61	59	55	55
1250	73	72	70	65	61	61	60	57	56	56	57	57	61	62	62	60	60	56	54
1600	79	77	76	72	68	66	65	63	59	59	62	61	61	64	66	62	62	59	56
2000	76	75	74	71	69	67	64	62	59	57	60	59	61	64	64	60	60	57	54
2500	91	91	88	87	85	83	79	76	71	66	69	67	66	69	74	67	69	69	62
3150	93	92	90	89	87	85	83	80	76	71	73	71	71	73	78	70	73	72	66
4000	91	90	87	86	83	80	77	73	68	61	65	67	67	67	70	64	65	65	59
5000	90	89	86	85	83	81	79	73	69	64	67	70	70	70	73	66	67	68	61
6300	86	85	82	81	79	77	76	71	65	57	61	64	62	62	65	59	60	60	54
8000	84	83	81	79	77	74	72	67	61	55	60	63	60	60	62	57	58	55	50
10000	80	78	75	73	71	68	67	61	56	54	59	62	62	59	59	56	56	51	44<
OVERALL	98	97	95	94	91	89	87	84	79	76	78	79	80	80	83	79	79	77	73

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 01
AIRCRAFT CODE 061
OPERATION CODE 02013
PROFILE VERSION A
17 DEC 75
PAGE 01

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
IDLE, 63% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	114.2	113.5	110.9	110.0	107.6	106.0	103.5	100.7	96.8	92.7	95.3	95.0	95.3	96.6	99.6	94.0	95.4	94.2	88.5
250	111.9	111.1	108.6	107.7	105.2	103.6	101.2	98.4	94.4	90.4	92.9	92.7	92.9	94.3	97.3	91.7	93.1	91.9	86.2
315	109.4	108.7	106.1	105.2	102.8	101.2	98.8	96.0	92.1	88.0	90.6	90.3	90.6	91.9	95.0	89.4	90.7	89.5	83.8
400	106.9	106.2	103.6	102.7	100.3	98.7	96.2	93.5	89.6	85.5	88.1	87.8	88.1	89.5	92.5	86.9	88.2	87.0	81.4
500	104.3	103.5	101.0	100.1	97.6	96.1	93.6	90.9	86.9	82.9	85.5	85.2	85.5	86.9	89.9	84.3	85.6	84.4	78.8
630	101.5	100.7	98.2	97.3	94.8	93.3	90.8	88.1	84.2	80.2	82.7	82.4	82.7	84.2	87.2	81.6	82.9	81.6	76.0
800	98.5	97.7	95.2	94.3	91.8	90.3	87.8	85.1	81.2	77.3	79.7	79.4	79.8	81.2	84.3	78.7	80.0	78.7	73.1
1000	95.2	94.5	91.9	91.0	88.6	87.1	84.6	81.9	78.0	74.1	76.6	76.2	76.7	78.1	81.1	75.6	76.9	75.6	70.0
1250	91.7	91.0	88.4	87.5	85.1	83.5	81.0	78.4	74.6	70.7	73.2	72.8	73.2	74.7	77.7	72.3	73.5	72.2	66.6
1600	87.9	87.1	84.6	83.6	81.2	79.6	77.1	74.5	70.7	66.9	69.4	69.0	69.6	71.1	74.1	68.6	69.8	68.3	62.8
2000	83.6	82.9	80.3	79.4	76.9	75.4	72.8	70.2	66.5	62.8	65.2	64.8	65.5	67.0	69.9	64.6	65.7	64.2	58.7
2500	78.8	78.5	75.8	74.7	72.2	70.5	68.0	65.4	61.7	58.0	60.5	60.2	60.9	62.4	65.3	59.9	61.1	59.4	53.8
3150	73.8	73.5	70.9	69.7	67.1	65.4	62.5	59.8	56.1	52.5	55.2	54.7	55.6	57.2	60.1	54.8	55.7	53.9	48.3
4000	68.3	68.0	65.3	64.0	61.4	59.7	56.5	53.2	49.6	45.6	48.7	48.3	49.3	51.3	54.2	49.2	49.9	47.8	41.9
5000	61.9	61.7	59.0	57.7	54.9	53.0	49.9	46.1	42.0	37.8	41.3	40.6	42.9	44.0	47.4	42.2	42.5	40.1	34.6
6300	54.6	54.3	51.6	50.1	47.1	45.3	41.5	36.7	33.0	29.0	32.9	32.4	36.2	37.1	39.5	35.6	34.6	31.7	25.2
8000	46.2	45.8	42.8	41.0	37.2	34.5	30.2	24.5	19.9	15.3	20.7	23.2	29.3	30.1	31.8	28.6	26.5	16.5	12.6
10000	35.5	34.8	31.7	28.7	21.0	17.5	11.7	12.3		1.6	8.6	13.6	20.2	20.6	21.5	18.6	15.9	1.3	.1
12500	20.1	16.4	12.5	10.3	4.8	.5		.1				4.0	10.4	7.9	8.6	8.6	5.4		
16000	4.6			4.0									.6						
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
IDLE, 63% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 01
AIRCRAFT CODE 061
OPERATION CODE 02013
PROFILE VERSION A
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DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	116.3	115.9	113.0	112.6	110.2	108.8	106.0	103.2	99.2	95.3	97.5	96.6	97.0	98.6	101.9	95.8	97.6	96.5	90.5
250	114.0	113.5	110.7	110.2	107.8	106.4	103.6	100.9	96.9	93.0	95.2	94.3	94.7	96.3	99.6	93.5	95.3	94.2	88.2
315	111.5	111.1	108.2	107.8	105.4	104.0	101.2	98.5	94.5	90.7	92.8	91.9	92.4	93.9	97.2	91.2	92.9	91.8	85.8
400	109.0	108.6	105.7	105.3	102.9	101.5	98.7	96.0	92.0	88.2	90.3	89.4	89.9	91.5	94.7	88.7	90.4	89.3	83.3
500	106.4	105.9	103.1	102.7	100.2	98.9	96.1	93.4	89.4	85.6	87.7	86.8	87.3	88.9	92.1	86.1	87.8	86.7	80.7
630	103.6	103.1	100.3	99.9	97.4	96.1	93.3	90.6	86.6	82.8	85.0	84.0	84.5	86.1	89.4	83.4	85.1	84.0	76.0
800	100.6	100.1	97.3	96.9	94.4	93.1	90.3	87.6	83.7	79.9	82.0	81.0	81.6	83.2	86.5	80.5	82.2	81.1	75.1
1000	97.3	96.9	94.0	93.6	91.2	89.9	87.0	84.4	80.5	76.7	78.8	77.8	78.4	80.1	83.4	77.4	79.1	77.9	72.0
1250	93.8	93.4	90.5	90.1	87.7	86.3	83.5	80.9	77.0	73.4	75.4	74.4	75.0	76.7	80.0	74.1	75.7	74.5	68.6
1600	90.0	89.5	86.7	86.2	83.8	82.4	79.6	77.0	73.2	69.5	71.7	70.6	71.4	73.0	76.3	70.4	72.0	70.7	64.8
2000	85.7	85.3	82.4	82.0	79.5	78.2	75.3	72.7	68.9	65.4	67.5	66.4	67.3	69.0	72.2	66.4	67.9	66.6	60.7
2500	80.9	80.9	77.9	77.3	74.8	73.3	70.5	67.9	64.2	60.6	62.8	61.8	62.7	64.4	67.6	61.7	63.3	61.7	55.8
3150	75.9	76.0	73.0	72.3	69.7	68.2	64.9	62.3	58.5	55.2	57.4	56.3	57.4	59.2	62.3	56.6	57.9	56.2	50.2
4000	70.0	69.9	67.0	66.1	63.5	61.9	58.5	55.2	51.5	47.7	50.5	49.6	50.8	52.9	56.0	50.6	51.7	49.6	43.5
5000	63.2	63.1	60.2	59.2	56.5	54.7	51.3	47.6	43.5	39.4	42.7	41.6	43.9	45.2	48.7	43.3	43.8	41.5	35.8
6300	55.5	55.3	52.4	51.1	48.1	46.4	42.5	37.7	34.0	30.0	33.8	33.1	36.9	37.9	40.4	36.4	35.5	32.6	26.0
8000	46.6	46.3	43.2	41.5	37.7	35.1	30.6	25.0	16.3	15.8	21.2	23.6	29.6	30.5	32.2	28.9	26.9	17.0	13.0
10000	35.5	34.8	31.7	28.7	21.0	17.5	11.7	12.3		1.6	8.6	13.6	20.2	20.6	21.5	18.6	15.9	1.3	.1
12500	20.1	16.4	12.5	16.3	4.8	.5		.1				4.0	10.4	7.9	8.6	8.6	5.4		
16000	4.6			4.0									.6						
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
IDLE, 63% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 01
AIRCRAFT CODE 061
OPERATION CODE 02013
PROFILE VERSION A
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DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	101.2	100.6	97.8	96.9	94.5	92.6	89.8	86.6	82.0	77.2	79.9	79.8	80.0	81.2	84.5	78.6	79.8	79.2	73.4
250	98.8	98.2	95.5	94.6	92.1	90.2	87.5	84.3	79.6	74.9	77.6	77.4	77.7	79.0	82.2	76.4	77.6	76.9	71.1
315	96.4	95.8	93.1	92.2	89.7	87.8	85.0	81.9	77.3	72.6	75.2	75.0	75.3	76.6	79.8	74.1	75.2	74.6	68.8
400	93.9	93.3	90.5	89.6	87.2	85.3	82.5	79.4	74.8	70.2	72.8	72.5	72.8	74.2	77.4	71.7	72.8	72.1	66.4
500	91.2	90.6	87.9	87.0	84.5	82.7	79.8	76.8	72.2	67.6	70.2	69.9	70.3	71.7	74.9	69.2	70.3	69.6	63.9
630	88.4	87.8	85.1	84.2	81.7	80.0	77.1	74.0	69.5	65.0	67.5	67.2	67.7	69.0	72.2	66.7	67.7	66.9	61.3
800	85.4	84.9	82.1	81.3	78.8	77.0	74.1	71.1	66.6	62.2	64.7	64.3	64.9	66.3	69.4	64.0	65.0	64.0	58.6
1000	82.2	81.7	79.0	78.1	75.6	73.9	70.9	68.0	63.5	59.2	61.7	61.3	62.0	63.4	66.4	61.3	62.1	61.0	55.8
1250	78.8	78.3	75.5	74.7	72.2	70.5	67.5	64.6	60.2	56.1	58.6	58.1	58.9	60.3	63.2	58.4	59.0	57.5	52.8
1600	75.0	74.6	71.8	71.0	68.5	66.8	63.8	60.9	56.6	52.7	55.2	54.7	55.8	57.1	59.8	55.3	55.8	54.4	49.7
2000	71.0	70.6	67.8	66.9	64.4	62.8	59.7	56.9	52.6	49.1	51.5	51.2	52.5	53.7	56.2	52.2	52.3	50.7	46.4
2500	66.5	66.1	63.4	62.4	59.9	58.3	55.3	52.4	48.3	45.3	47.6	47.4	49.0	50.1	52.3	48.7	48.6	46.6	42.9
3150	61.6	61.2	58.5	57.4	54.9	53.3	50.3	47.4	43.6	41.1	43.4	43.4	45.3	46.3	48.2	45.1	44.7	42.4	39.2
4000	56.1	55.7	53.2	51.9	49.3	47.8	44.8	41.9	38.4	36.7	38.9	39.2	41.3	42.3	43.8	41.2	40.6	37.8	35.3
5000	50.2	49.7	47.3	45.8	43.1	41.5	38.7	35.8	33.0	32.1	34.2	34.6	37.0	37.9	39.1	36.9	36.1	33.0	30.9
6300	43.8	43.1	41.0	39.1	36.2	34.7	32.1	29.2	27.3	27.2	29.2	29.9	32.4	33.3	34.2	32.4	31.3	27.9	26.4
8000	37.3	36.3	34.6	32.2	29.0	27.6	25.6	22.7	22.2	22.8	24.8	25.7	28.5	29.1	29.8	28.3	27.1	23.4	22.2
10000	30.9	29.5	28.2	25.5	22.1	20.8	19.4	16.6	17.4	18.3	20.3	21.4	24.3	24.6	25.3	24.0	22.6	18.8	17.8
12500	24.6	23.1	22.0	19.4	16.0	14.7	13.7	10.9	12.5	13.5	15.5	16.8	19.7	19.8	20.5	19.3	17.8	13.9	13.1
16000	18.3	16.8	15.8	13.5	10.3	9.0	8.2	5.4	7.4	8.4	10.4	11.9	14.7	14.7	15.3	14.2	12.7	8.7	7.9
20000	12.0	10.6	9.5	7.5	4.7	3.2	2.6	1.0	4.0	2.9	5.0	6.6	9.3	9.1	9.7	8.7	7.2	3.1	2.2
25000	5.3	4.2	2.8	1.3								.9	3.5	3.1	3.7	2.8	1.3		

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 01
AIRCRAFT CODE 061
OPERATION CODE 02013
PROFILE VERSION A
17 DEC 75
PAGE G1

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
IDLE, 63% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	103.3	103.0	99.9	99.5	97.1	95.4	92.3	89.1	84.4	79.8	82.1	81.4	81.8	83.2	86.7	80.4	82.1	81.6	75.3
250	101.0	100.6	97.6	97.2	94.7	93.0	89.9	86.8	82.1	77.6	79.8	79.0	79.4	80.9	84.4	78.2	79.8	79.3	73.1
315	98.5	98.2	95.1	94.8	92.3	90.6	87.5	84.4	79.7	75.2	77.5	76.6	77.1	78.6	82.1	75.9	77.5	76.9	70.7
400	96.0	95.7	92.6	92.2	89.8	88.1	85.0	81.9	77.3	72.8	75.0	74.1	74.6	76.2	79.6	73.5	75.0	74.5	68.3
500	93.3	93.0	90.0	89.6	87.1	85.5	82.3	79.3	74.7	70.3	72.5	71.5	72.1	73.7	77.1	71.0	72.5	71.9	65.9
630	90.5	90.2	87.2	86.8	84.3	82.8	79.5	76.5	71.9	67.6	69.8	68.8	69.4	71.0	74.4	68.5	69.9	69.2	63.3
800	87.5	87.3	84.2	83.9	81.4	79.8	76.6	73.6	69.0	64.8	67.0	65.9	66.7	68.3	71.6	65.8	67.2	66.4	60.6
1000	84.3	84.1	81.1	80.7	78.2	76.7	73.4	70.5	66.0	61.9	64.0	62.9	63.8	65.4	68.6	63.1	64.3	63.4	57.8
1250	80.9	80.7	77.6	77.3	74.8	73.3	70.0	67.1	62.6	58.7	60.8	59.7	60.7	62.3	65.4	60.1	61.2	60.2	54.8
1600	77.1	77.0	73.9	73.6	71.1	69.6	66.3	63.4	59.0	55.4	57.4	56.3	57.5	59.1	62.0	57.1	58.0	56.7	51.6
2000	73.1	73.0	69.9	69.5	67.0	65.6	62.2	59.4	55.1	51.8	53.8	52.8	54.3	55.7	58.4	54.0	54.5	53.0	48.4
2500	68.6	68.5	65.5	65.0	62.5	61.1	57.7	54.9	50.8	47.9	49.9	49.0	50.8	52.1	54.5	50.5	50.9	49.0	44.9
3150	63.7	63.6	60.6	60.0	57.5	56.2	52.8	49.9	46.0	43.7	45.7	45.0	47.1	48.3	50.4	46.9	46.9	44.7	41.2
4000	57.8	57.7	54.8	54.0	51.4	50.0	46.7	43.9	40.4	38.8	40.8	40.4	42.8	43.9	45.6	42.6	42.3	39.7	36.8
5000	51.5	51.1	48.6	47.3	44.6	43.2	40.2	37.3	34.4	33.6	35.5	35.6	38.1	39.1	40.4	38.0	37.4	34.4	32.1
6300	44.7	44.1	41.8	40.1	37.2	35.8	33.1	30.2	28.3	28.3	30.1	30.5	33.2	34.1	35.1	33.1	32.2	28.9	27.2
8000	37.8	36.8	35.0	32.7	29.5	28.1	26.1	23.2	22.7	23.3	25.2	26.1	28.8	29.4	30.3	28.7	27.5	23.9	22.6
10000	30.9	29.5	28.2	25.5	22.1	20.8	19.4	16.6	17.4	18.3	20.3	21.4	24.3	24.6	25.3	24.0	22.5	18.8	17.8
12500	24.6	23.1	22.0	19.4	16.0	14.7	13.7	10.9	12.5	13.5	15.5	16.8	19.7	19.8	20.5	19.3	17.8	13.9	13.1
16000	19.3	16.8	15.8	13.5	10.3	9.0	8.2	5.4	7.4	8.4	10.4	11.9	14.7	14.7	15.3	14.2	12.7	8.7	7.9
20000	12.0	10.6	9.5	7.5	4.7	3.2	2.6	.0	2.0	2.9	5.0	6.6	9.3	9.1	9.7	8.7	7.2	3.1	2.2
25000	5.3	4.2	2.8	1.3								.9	3.5	3.1	3.7	2.8	1.3		

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
IDLE, 63% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 01
AIRCRAFT CODE 061
OPERATION CODE 02013
PROFILE VERSION A
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P=PNLT A=AL T=ALT

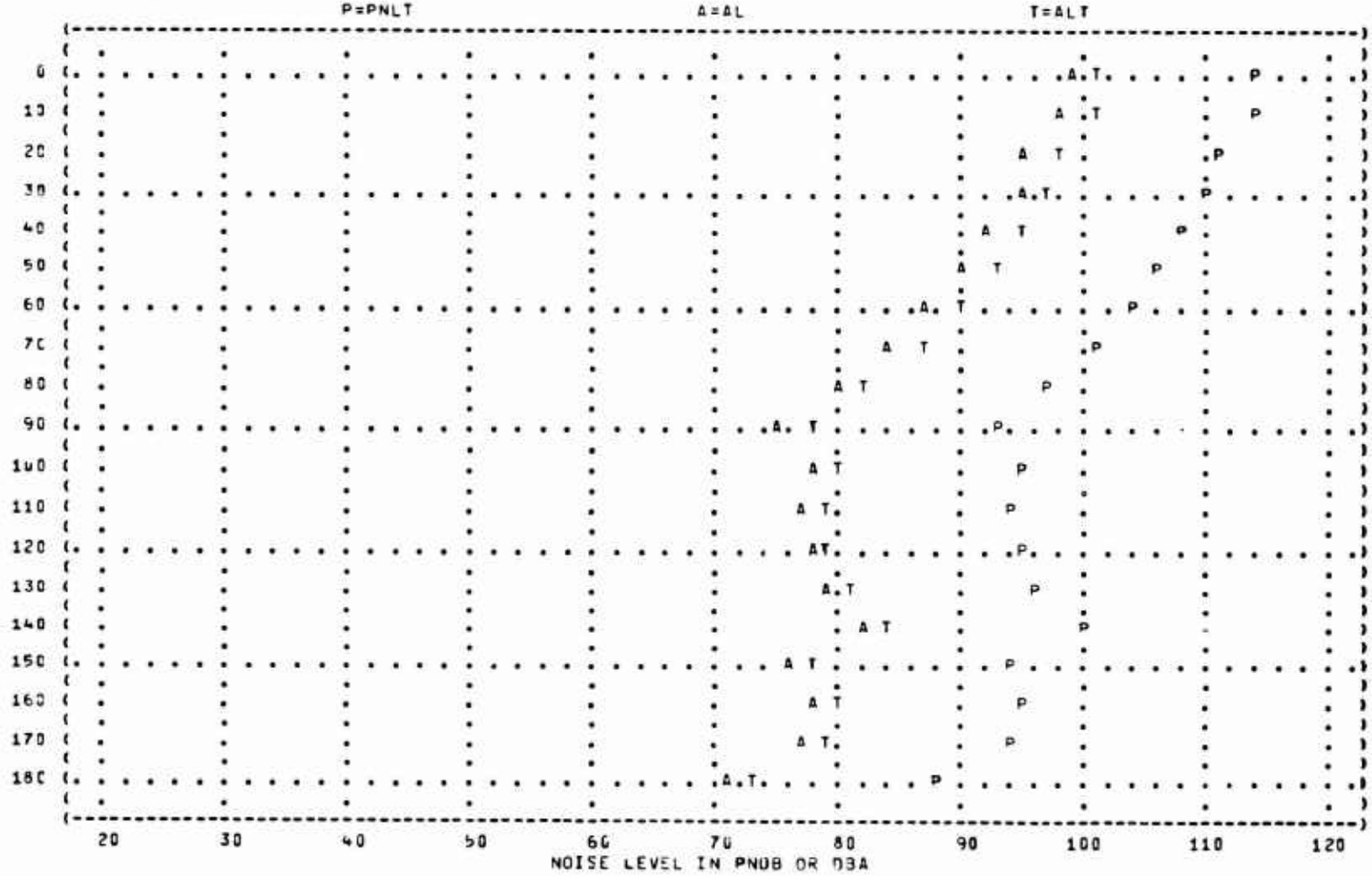


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 02
AIRCRAFT CODE 061
OPERATION CODE 01010
PROFILE VERSION A
17 DEC 75
PAGE C2

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	73	72	73	76	77	77	77	80	78	82	83	82	87	94	98	102	103	93	83
63	75	75	76	76	77	79	78	79	81	83	84	85	89	94	104	105	105	95	85
80	77	77	79	79	78	80	81	82	82	85	87	89	93	98	105	108	106	96	86
100	81	79	82	81	82	82	83	84	84	87	88	90	95	100	106	110	108	98	88
125	85	85	88	87	86	86	87	87	87	88	90	93	98	105	108	112	111	101	91
160	85	84	86	85	85	85	86	87	88	91	92	95	99	109	112	113	113	103	93
200	86	86	86	85	86	85	85	88	88	90	93	96	100	107	114	110	114	104	94
250	87	86	85	87	85	85	85	88	88	89	91	96	100	107	112	112	115	105	95
315	84	85	86	86	86	84	84	87	88	88	93	95	101	107	109	113	113	103	93
400	85	86	87	85	84	82	82	86	86	87	92	94	99	103	108	110	110	100	90
500	85	86	85	84	83	80	80	84	86	86	89	92	98	102	106	106	108	98	88
630	85	85	86	83	82	81	80	83	85	85	88	90	96	100	104	104	106	96	86
800	83	83	84	81	79	80	79	81	84	83	85	88	94	98	102	101	102	92	82
1000	81	81	82	79	77	79	79	81	84	83	84	88	93	98	101	98	99	89	79
1250	81	82	81	79	77	79	79	80	84	82	83	87	91	96	98	95	94	84	74
1600	81	82	83	81	79	79	80	81	83	83	83	87	91	96	96	92	90	80	70
2000	80	82	82	81	80	80	81	81	82	81	82	86	91	94	94	89	87	77	67
2500	80	81	81	80	79	79	80	81	81	81	82	85	89	92	91	86	85	75	65
3150	81	82	81	81	79	80	80	80	81	80	81	85	88	90	88	84	82	72	62
4000	85	87	85	84	83	82	81	81	81	81	82	86	88	89	87	83	81	71	61
5000	84	86	85	83	82	81	78	79	78	77	80	83	84	86	84	79	77	67	57
6300	81	82	81	80	80	79	78	76	75	74	77	80	80	83	81	76	74	64	54
8000	78	80	79	78	77	76	75	74	74	73	76	79	79	82	81	77	76	66	56
10000	75	76	75	74	72	72	70	70	70	70	73	75	76	80	80	78	78	68	58
OVERALL	97	97	97	97	96	95	95	97	98	99	102	104	109	116	120	121	122	112	102

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 02
AIRCRAFT CODE 061
OPERATION CODE 01019
PROFILE VERSION A
17 DEC 75
PAGE D2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	111.4	112.8	111.9	110.5	109.5	109.0	108.6	109.4	110.0	110.1	112.0	115.4	119.0	124.2	127.4	127.5	128.1	118.1	108.1
250	109.1	110.4	109.6	108.2	107.2	106.7	106.3	107.1	107.8	107.8	109.7	113.1	116.9	122.1	125.3	125.5	126.1	116.0	106.0
315	106.7	108.0	107.2	105.8	104.8	104.3	104.0	104.8	105.4	105.4	107.4	110.8	114.7	120.0	123.2	123.4	124.0	113.9	103.8
400	104.2	105.5	104.7	103.4	102.3	101.8	101.5	102.4	103.1	103.0	105.2	108.4	112.5	117.8	121.0	121.2	121.8	111.8	101.7
500	101.6	102.9	102.1	100.8	99.7	99.2	98.9	99.9	100.6	100.6	102.8	105.9	110.2	115.5	118.7	119.0	119.6	109.6	99.4
630	98.8	100.1	99.4	98.0	97.0	96.4	96.2	97.3	98.0	98.0	100.4	103.2	107.8	113.2	116.2	116.8	117.2	107.1	96.9
800	95.8	97.1	96.4	95.0	94.0	93.5	93.4	94.5	95.2	95.3	97.9	100.7	105.4	110.7	113.6	114.5	114.7	104.6	94.3
1000	92.6	93.9	93.2	91.8	90.8	90.3	90.3	91.6	92.4	92.5	95.2	98.0	102.7	108.2	110.9	112.0	112.3	102.1	91.8
1250	89.2	90.4	89.7	88.4	87.3	86.9	87.2	88.5	89.3	89.4	92.4	95.0	99.9	105.2	108.2	109.1	109.4	99.1	88.8
1600	85.4	86.6	86.0	84.8	83.7	83.6	83.8	85.2	86.3	86.1	89.4	92.0	97.0	101.9	105.4	105.9	106.2	96.0	85.6
2000	81.7	82.4	82.7	81.3	80.2	80.0	80.3	82.0	83.2	82.9	86.3	88.9	93.9	98.4	102.4	102.8	103.2	93.0	82.6
2500	78.0	78.7	78.7	77.4	76.2	76.0	76.3	78.0	79.3	79.0	82.4	85.0	90.0	94.6	98.7	99.0	99.4	89.2	78.8
3150	73.9	74.5	74.7	73.2	71.9	71.6	71.9	73.6	74.9	74.9	78.0	80.6	85.9	90.5	94.4	94.8	95.2	84.9	74.5
4000	69.3	70.0	70.2	68.5	67.1	66.6	67.0	68.7	70.3	70.4	73.1	76.1	81.4	86.0	89.8	89.9	90.7	80.3	69.9
5000	64.4	65.0	65.3	63.5	62.1	61.5	61.8	63.7	65.4	65.5	68.2	71.2	76.7	81.2	85.1	85.0	86.0	75.6	65.1
6300	59.1	59.7	60.0	58.2	56.7	56.2	56.2	58.5	60.2	60.2	63.1	66.1	71.6	76.3	80.2	80.1	81.2	70.7	60.0
8000	54.8	55.3	55.6	53.8	52.3	51.5	51.2	54.1	56.0	56.0	59.0	62.1	67.7	72.4	76.6	76.6	77.7	67.2	56.3
10000	50.1	50.6	50.8	49.1	47.5	46.2	45.8	49.2	51.3	51.3	54.6	57.7	63.5	68.4	72.7	72.8	73.9	63.3	52.3
12500	44.5	45.1	45.2	43.7	41.8	39.9	40.1	43.8	46.0	46.0	49.8	52.9	58.9	63.9	68.4	68.7	69.8	59.1	47.8
16000	38.3	38.9	38.4	36.8	35.2	33.1	32.7	37.4	39.8	39.7	44.1	47.5	53.8	59.1	63.7	64.1	65.3	54.4	42.5
20000	31.0	31.6	30.7	29.8	27.7	24.1	23.5	29.7	32.4	32.7	37.6	41.1	48.2	53.6	58.5	59.2	60.3	49.1	36.1
25000	20.4	21.6	20.3	18.7	15.2	10.8	10.4	19.5	22.3	22.1	29.9	33.7	41.2	47.3	52.7	53.8	54.7	42.4	28.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 02
AIRCRAFT CODE 061
OPERATION CODE 01019
PROFILE VERSION A
17 DEC 75
PAGE 52

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	111.4	113.8	112.6	111.3	110.3	109.0	108.6	109.4	110.0	110.1	112.0	115.4	119.0	124.7	127.4	127.5	128.1	118.1	108.1
250	109.1	111.5	110.3	109.0	107.7	106.7	106.3	107.1	107.8	107.8	109.7	113.1	116.9	122.6	125.3	125.5	126.1	116.0	106.0
315	106.7	109.1	107.9	106.6	105.4	104.3	104.0	104.8	105.4	105.4	107.4	110.8	114.7	120.5	123.2	123.4	124.0	113.9	103.8
400	104.2	106.6	105.4	104.1	102.9	101.8	101.5	102.4	103.1	103.0	105.2	108.4	112.5	118.3	121.0	121.2	121.8	111.8	101.7
500	101.6	104.0	102.8	101.5	100.3	99.2	98.9	99.9	100.6	100.6	102.8	105.9	110.2	116.0	118.7	119.0	119.6	109.6	99.4
630	98.8	101.2	100.0	98.7	97.5	96.4	96.2	97.3	98.0	98.0	100.4	103.2	107.8	113.7	116.2	116.8	117.2	107.1	96.9
800	95.8	98.2	97.1	95.8	94.5	93.5	93.4	94.5	95.2	95.3	97.9	100.7	105.4	111.2	113.6	114.5	114.7	104.6	94.3
1000	92.6	95.0	93.9	92.6	91.3	90.3	90.3	91.6	92.4	92.5	95.2	98.0	102.7	108.7	110.9	112.0	112.3	102.1	91.8
1250	89.2	91.5	90.4	89.1	87.8	86.9	87.2	88.5	89.3	89.4	92.4	95.0	99.9	105.7	108.2	109.1	109.4	99.1	88.8
1600	85.4	87.6	86.7	85.6	84.2	83.8	83.8	85.2	86.3	86.1	89.4	92.9	97.9	102.4	105.4	105.9	106.2	96.0	85.6
2000	81.7	83.5	83.3	82.0	80.8	80.0	80.3	82.0	83.2	82.9	86.3	88.9	93.9	98.9	102.4	102.8	103.2	93.0	82.6
2500	78.0	79.8	79.3	78.1	76.7	76.0	76.3	78.0	79.3	79.0	82.4	85.0	90.0	95.1	98.7	99.0	99.4	89.2	78.8
3150	73.9	75.6	75.4	73.9	72.4	71.6	71.9	73.6	74.9	74.9	78.0	80.6	85.9	91.0	94.4	94.8	95.2	84.9	74.5
4000	69.3	70.9	70.7	69.1	67.6	66.6	67.0	68.7	70.3	70.4	73.1	76.1	81.4	86.4	89.8	89.9	90.7	80.3	69.9
5000	64.4	65.7	65.7	63.9	62.4	61.5	61.8	63.7	65.4	65.5	68.2	71.2	76.7	81.5	85.1	85.0	86.0	75.6	65.1
6300	59.1	60.2	60.3	58.5	56.9	56.2	56.2	58.5	60.2	60.2	63.1	66.1	71.6	76.5	80.2	80.1	81.2	70.7	60.0
8000	54.8	55.5	55.8	54.0	52.4	51.5	51.2	54.1	56.0	56.0	59.0	62.1	67.7	72.5	76.6	76.6	77.7	67.2	56.3
10000	50.1	50.6	50.8	49.1	47.5	46.2	45.8	49.2	51.3	51.3	54.6	57.7	63.5	68.4	72.7	72.8	73.9	63.3	52.3
12500	44.5	45.1	45.2	43.7	41.8	39.9	40.1	43.8	46.0	46.0	49.8	52.9	58.9	63.9	68.4	68.7	69.8	59.1	47.8
16000	38.3	38.9	38.4	36.8	35.2	33.1	32.7	37.4	39.8	39.7	44.1	47.5	53.8	59.1	63.7	64.1	65.3	54.4	42.5
20000	31.0	31.6	30.7	29.8	27.7	24.1	23.5	29.7	32.4	32.7	37.6	41.1	48.2	53.6	58.5	59.2	60.3	49.1	36.1
25000	20.4	21.6	20.3	18.7	15.2	10.8	10.4	19.5	22.3	22.1	29.9	33.7	41.2	47.3	52.7	53.8	54.7	42.4	28.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 02
AIRCRAFT CODE 061
OPERATION CODE 01019
PROFILE VERSION A
17 DEC 75
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	96.4	97.6	97.0	95.6	94.3	94.0	93.8	95.1	96.4	96.0	98.4	101.5	106.1	111.0	114.5	114.7	115.9	105.9	95.9
250	94.1	95.3	94.8	93.3	92.1	91.7	91.6	92.9	94.2	93.9	96.5	99.4	104.0	108.9	112.4	112.6	113.9	103.9	93.9
315	91.8	92.9	92.5	91.0	89.8	89.5	89.4	90.7	92.0	91.7	94.1	97.2	101.9	106.8	110.4	110.6	111.8	101.8	91.8
400	89.5	90.5	90.2	88.7	87.4	87.1	87.1	88.5	89.8	89.5	92.0	95.0	99.8	104.7	108.3	108.5	109.7	99.7	89.7
500	87.1	88.1	87.8	86.3	85.0	84.7	84.7	86.2	87.6	87.3	89.7	92.8	97.6	102.5	106.1	106.4	107.6	97.6	87.6
630	84.6	85.5	85.3	83.8	82.5	82.2	82.2	83.8	85.3	84.9	87.5	90.5	95.3	100.2	103.8	104.2	105.3	95.3	85.3
800	82.0	82.9	82.8	81.2	79.9	79.7	79.7	81.4	82.9	82.5	85.1	88.1	93.0	97.9	101.5	101.9	103.0	93.0	83.0
1000	79.4	80.2	80.2	78.6	77.3	77.0	77.1	78.8	80.4	80.1	82.7	85.7	90.7	95.5	99.1	99.6	100.7	90.7	80.7
1250	76.7	77.4	77.5	75.9	74.5	74.3	74.4	76.2	77.9	77.5	80.2	83.1	88.1	92.9	96.6	97.0	98.1	88.1	78.1
1600	73.9	74.6	74.7	73.1	71.7	71.4	71.5	73.4	75.2	74.8	77.6	80.4	85.5	90.2	93.9	94.3	95.4	85.4	75.4
2000	71.1	71.7	71.9	70.1	68.7	68.5	68.5	70.6	72.4	72.0	74.8	77.6	82.8	87.4	91.2	91.6	92.6	82.6	72.6
2500	68.0	68.6	68.8	67.0	65.5	65.3	65.3	67.4	69.4	68.9	71.7	74.5	79.8	84.3	88.1	88.3	89.4	79.4	69.4
3150	64.7	65.2	65.5	63.6	62.0	61.9	61.8	64.0	66.0	65.6	68.3	71.1	76.4	80.8	84.7	84.7	85.9	75.9	65.9
4000	61.0	61.5	61.8	59.8	58.2	58.1	58.0	60.2	62.3	61.9	64.4	67.3	72.6	77.1	80.9	80.7	81.9	71.9	61.9
5000	56.9	57.4	57.7	55.6	53.9	54.0	53.8	55.9	58.2	57.8	60.2	63.1	68.4	72.8	76.6	76.3	77.6	67.6	57.6
6300	52.5	52.9	53.2	51.1	49.4	49.5	49.3	51.5	53.8	53.3	55.7	58.7	64.0	68.4	72.2	71.8	73.1	63.1	53.1
8000	48.6	49.0	49.3	47.2	45.5	45.4	45.1	47.5	49.8	49.4	51.9	54.8	60.2	64.6	68.6	68.3	69.7	59.7	49.7
10000	44.3	44.8	45.0	43.0	41.4	41.0	40.7	43.2	45.4	45.1	47.9	50.6	56.2	60.5	64.6	64.6	65.9	55.9	45.9
12500	39.7	40.2	40.4	38.4	36.9	36.3	35.9	38.7	40.8	40.5	43.6	46.2	51.8	56.2	60.4	60.5	61.8	51.8	41.8
16000	34.7	35.2	35.3	33.5	32.1	31.2	30.7	33.8	35.7	35.6	38.9	41.3	47.0	51.4	55.7	56.0	57.3	47.3	37.3
20000	29.2	29.8	29.8	28.2	26.9	25.7	25.3	28.5	30.3	30.2	33.8	36.1	41.8	46.3	50.7	51.2	52.5	42.5	32.5
25000	23.2	23.7	23.8	22.4	21.3	19.9	19.6	22.9	24.4	24.5	28.2	30.5	36.1	40.9	45.3	46.0	47.2	37.2	27.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 02
AIRCRAFT CODE 061
OPERATION CODE 01019
PROFILE VERSION A
17 DEC 75
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	96.4	98.6	97.7	96.3	94.8	94.0	93.8	95.1	96.4	96.0	98.4	101.5	106.1	111.5	114.5	114.7	115.9	105.9	95.9
250	94.1	96.4	95.5	94.0	92.6	91.7	91.6	92.9	94.2	93.9	96.3	99.4	104.0	109.4	112.4	112.6	113.9	103.9	93.9
315	91.8	94.0	93.2	91.7	90.3	89.5	89.4	90.7	92.0	91.7	94.1	97.2	101.9	107.3	110.4	110.6	111.8	101.8	91.8
400	89.5	91.6	90.8	89.4	87.9	87.1	87.1	88.5	89.8	89.5	92.0	95.0	99.8	105.2	108.3	108.5	109.7	99.7	89.7
500	87.1	89.2	88.4	87.0	85.5	84.7	84.7	86.2	87.6	87.3	89.7	92.8	97.6	103.0	106.1	106.4	107.6	97.6	87.6
630	84.6	86.6	86.0	84.5	83.0	82.2	82.2	83.8	85.3	84.9	87.5	90.5	95.3	100.7	103.8	104.2	105.3	95.3	85.3
800	82.0	84.0	83.4	82.0	80.5	79.7	79.7	81.4	82.9	82.5	85.1	88.1	93.0	98.4	101.5	101.9	103.0	93.0	83.0
1000	79.4	81.3	80.8	79.3	77.8	77.0	77.1	78.8	80.4	80.1	82.7	85.7	90.7	96.0	99.1	99.6	100.7	90.7	80.7
1250	76.7	78.5	78.1	76.6	75.0	74.3	74.4	76.2	77.9	77.5	80.2	83.1	88.1	93.4	96.6	97.0	98.1	88.1	78.1
1600	73.9	75.7	75.4	73.8	72.2	71.4	71.5	73.4	75.2	74.8	77.6	80.4	85.5	90.7	93.9	94.3	95.4	85.4	75.4
2000	71.1	72.8	72.6	70.9	69.3	68.5	68.5	70.6	72.4	72.0	74.8	77.6	82.8	87.9	91.2	91.6	92.6	82.6	72.6
2500	68.0	69.7	69.5	67.7	66.1	65.3	65.3	67.4	69.4	68.9	71.7	74.5	79.8	84.8	88.1	88.3	89.4	79.4	69.4
3150	64.7	66.3	66.2	64.3	62.6	61.9	61.8	64.0	66.0	65.6	68.3	71.1	76.4	81.3	84.7	84.7	85.9	75.9	65.9
4000	61.0	62.4	62.3	60.4	58.6	58.1	58.0	60.2	62.3	61.9	64.4	67.3	72.6	77.5	80.9	80.7	81.9	71.9	61.9
5000	56.9	58.0	58.1	56.0	54.2	54.0	53.8	55.9	58.2	57.8	60.2	63.1	68.4	73.1	76.6	76.3	77.6	67.6	57.6
6300	52.5	53.4	53.5	51.4	49.6	49.5	49.3	51.5	53.8	53.3	55.7	58.7	64.0	68.6	72.2	71.8	73.1	63.1	53.1
8000	48.6	49.2	49.4	47.3	45.6	45.4	45.1	47.5	49.8	49.4	51.9	54.8	60.2	64.7	68.6	68.3	69.7	59.7	49.7
10000	44.3	44.8	45.0	43.0	41.4	41.0	40.7	42.2	45.4	45.1	47.9	50.6	56.2	60.5	64.6	64.6	65.9	55.9	45.9
12500	39.7	40.2	40.4	38.4	36.9	36.3	35.9	38.7	40.8	40.5	43.6	46.2	51.8	56.2	60.4	60.5	61.8	51.8	41.8
16000	34.7	35.2	35.3	33.5	32.1	31.2	30.7	33.6	35.7	35.6	38.9	41.3	47.0	51.4	55.7	56.0	57.3	47.3	37.3
20000	29.2	29.8	29.8	28.2	26.9	25.7	25.3	28.5	30.3	30.2	33.8	36.1	41.8	46.3	50.7	51.2	52.5	42.5	32.5
25000	23.2	23.7	23.8	22.4	21.3	19.9	19.6	22.9	24.4	24.5	28.2	30.5	36.1	40.9	45.3	46.0	47.2	37.2	27.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

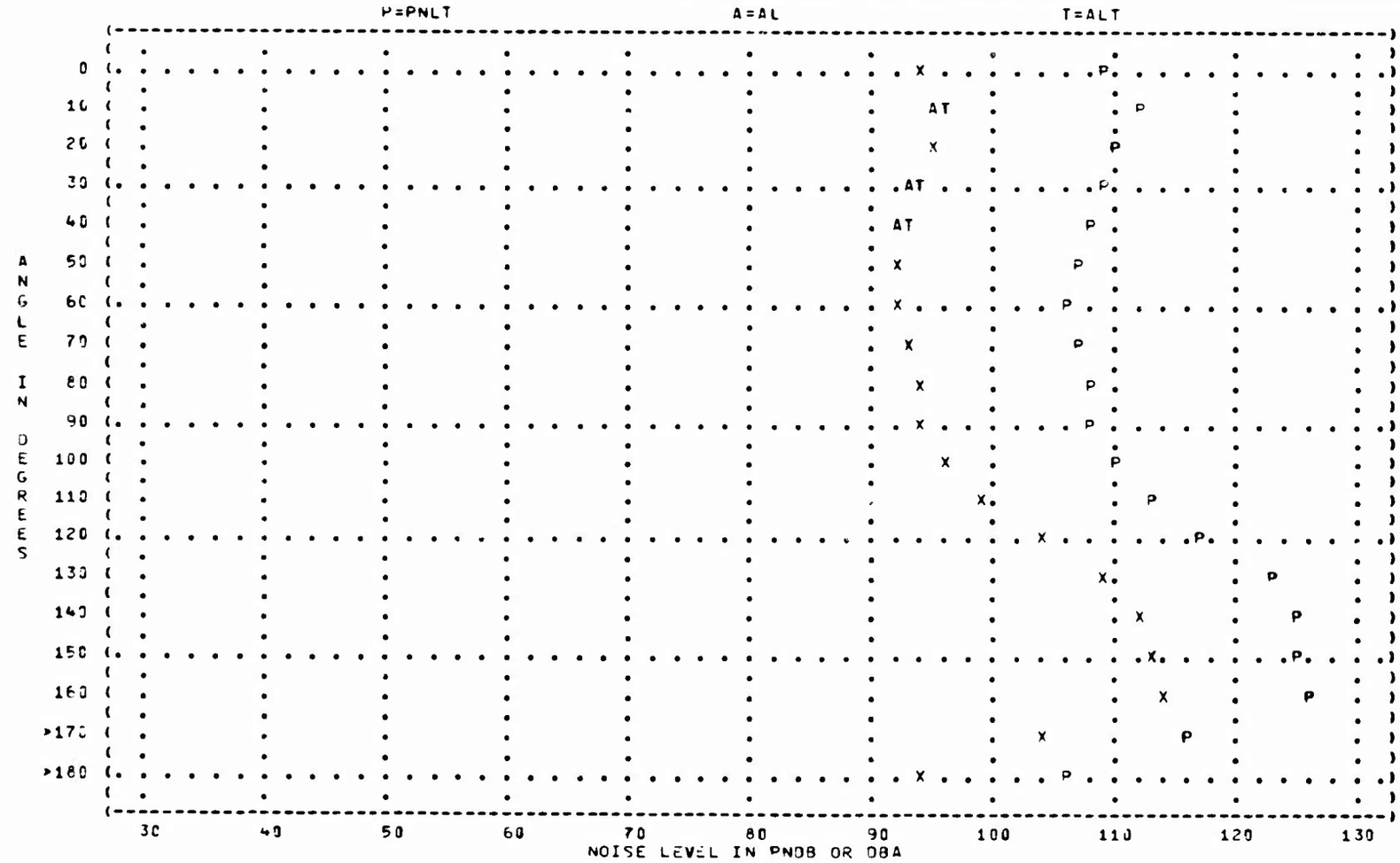
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
ENGINE RUNUP, 60% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 02
AIRCRAFT CODE 061
OPERATION CODE 01019
PROFILE VERSION A
17 DEC 75
PAGE J2



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 03
AIRCRAFT CODE 061
OPERATION CODE 01006
PROFILE VERSION A
17 DEC 75
PAGE C3

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
INTERMEDIATE POWER (MIL)
90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	81	80	81	83	82	83	85	86	88	88	89	91	97	102	106	111	106	96	86
63	82	83	84	85	85	85	86	86	87	90	92	94	99	106	111	113	107	97	87
80	85	85	87	86	87	86	88	89	90	92	94	95	100	107	114	116	110	100	90
100	88	87	89	88	88	90	90	91	91	94	97	97	103	110	116	118	109	99	89
125	92	91	93	90	91	91	92	93	94	96	98	101	107	114	116	119	111	101	91
160	94	94	95	92	93	92	93	93	96	98	101	104	112	118	118	121	112	102	92
200	95	94	94	93	93	93	94	94	95	98	101	104	110	117	120	118	110	100	90
250	92	93	94	94	94	93	93	94	96	97	101	104	111	118	121	117	109	99	89
315	94	95	97	94	93	92	92	94	96	97	101	105	111	119	118	118	109	99	89
400	96	97	97	95	93	91	90	92	96	95	102	104	111	115	117	117	107	97	87
500	99	99	99	96	92	90	89	91	95	94	99	102	109	114	115	114	105	95	85
630	99	99	101	98	94	93	91	92	95	93	99	100	108	112	115	113	102	92	82
800	97	97	100	97	94	96	93	93	95	92	97	98	104	111	113	111	99	89	79
1000	93	93	95	94	92	94	95	95	95	92	96	98	102	111	112	109	96	86	76
1250	90	93	93	92	90	91	93	94	96	93	96	97	99	110	111	107	95	85	75
1600	89	92	94	93	90	91	92	93	96	94	97	97	98	110	111	106	95	85	75
2000	87	90	92	92	91	92	93	94	95	94	98	97	98	110	109	104	93	83	73
2500	85	88	89	89	89	90	92	93	93	93	98	97	95	109	109	103	91	81	71
3150	83	86	88	88	88	90	91	92	93	93	97	96	95	109	108	103	87	77	67
4000	83	85	87	88	87	90	91	92	93	93	97	96	93	110	108	103	86	76	66
5000	78	80	82	82	82	84	85	87	90	90	95	94	93	108	107	101	81	71	61
6300	77	78	80	81	80	83	84	85	87	87	91	92	90	107	107	100	76	66	56
8000	76	78	79	80	79	81	83	85	86	86	91	91	89	107	108	102	77	67	57
10000	71	72	74	74	74	77	78	80	82	82	87	90	86	108	109	100	76	56	56
OVERALL	106	107	108	106	104	105	105	106	108	108	112	114	120	127	128	128	120	110	100

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 03
AIRCRAFT CODE 061
OPERATION CODE 01006
PROFILE VERSION A
17 DEC 75
PAGE D3

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
INTERMEDIATE POWER (MIL)
90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	116.5	117.4	119.0	117.8	116.5	117.8	118.5	119.7	121.0	120.8	125.1	125.5	129.7	139.1	139.2	136.8	125.9	115.9	105.8
250	114.4	115.2	116.9	115.6	114.3	115.6	116.2	117.4	118.8	118.6	122.8	123.2	126.6	136.8	137.0	134.6	123.8	113.8	103.7
315	112.2	113.1	114.7	113.3	112.1	113.3	113.9	115.0	116.5	116.3	120.5	120.9	124.5	134.5	134.7	132.4	121.7	111.7	101.6
400	110.0	110.8	112.4	111.0	109.8	110.9	111.6	112.7	114.1	113.9	118.1	118.5	122.3	132.0	132.5	130.2	119.6	109.6	99.4
500	107.7	108.5	110.1	108.7	107.3	108.5	109.1	110.2	111.6	111.4	115.7	116.0	120.0	129.5	130.1	127.9	117.4	107.3	97.1
630	105.4	106.2	107.8	106.2	104.8	105.9	106.6	107.7	109.1	108.8	113.1	113.5	117.6	126.8	127.5	125.5	115.1	105.0	94.7
800	102.9	103.7	105.3	103.6	102.2	103.3	104.0	105.0	106.4	106.0	110.4	110.8	115.2	124.3	124.8	123.1	112.7	102.6	92.3
1000	100.4	101.1	102.8	100.8	99.4	100.5	101.1	102.1	103.6	103.1	107.5	108.1	112.7	121.6	122.0	120.5	110.2	100.1	89.7
1250	97.7	98.4	100.0	98.0	96.5	97.5	98.1	99.0	100.6	100.0	104.5	105.3	110.0	118.5	119.2	117.8	107.3	97.1	86.7
1600	94.9	95.6	97.2	95.1	93.3	94.3	94.9	95.7	97.4	96.7	101.1	102.3	107.2	115.2	116.2	114.9	104.5	94.3	83.8
2000	92.0	92.6	94.2	92.0	89.9	90.9	91.4	92.2	94.0	93.1	97.5	99.2	104.2	111.7	113.1	111.9	101.5	91.2	80.7
2500	88.7	89.3	90.9	88.6	86.3	87.1	87.6	88.3	90.4	89.2	93.6	95.3	100.4	107.9	109.3	108.1	97.6	87.3	76.8
3150	85.1	85.8	87.4	85.0	82.6	83.2	83.4	84.1	86.3	85.0	89.3	91.0	96.4	103.8	105.0	103.8	93.3	82.9	72.5
4000	81.0	81.7	83.3	80.9	78.3	79.1	78.7	79.5	81.8	80.4	84.6	86.2	92.0	99.3	100.6	99.0	88.7	78.3	67.8
5000	76.4	77.1	78.8	76.2	73.6	74.6	74.0	74.6	76.9	75.4	79.7	81.3	87.3	94.4	95.9	94.1	83.9	73.5	62.9
6300	71.6	72.2	73.9	71.3	68.6	69.6	69.0	69.4	71.5	70.0	74.6	76.3	82.4	89.4	90.9	89.2	79.0	68.5	57.7
8000	67.6	68.2	69.9	67.1	64.4	65.1	64.3	64.7	66.8	65.5	70.4	72.3	78.7	85.4	86.9	85.5	75.4	64.8	53.7
10000	63.2	63.7	65.4	62.6	59.7	60.3	59.0	59.5	62.2	60.9	66.0	68.0	74.7	81.2	82.6	81.6	71.5	60.8	49.4
12500	58.6	58.8	60.5	57.5	54.6	54.8	53.3	54.0	57.3	56.0	61.2	63.5	70.4	76.8	78.3	77.3	67.3	56.3	44.2
16000	53.6	53.4	55.0	51.9	48.9	48.4	46.7	48.0	51.7	50.5	55.9	58.4	65.6	72.0	73.5	72.8	62.7	51.3	38.4
20000	47.8	47.5	48.8	45.3	41.9	40.9	39.6	41.2	45.4	44.1	50.1	52.8	60.3	66.7	68.3	67.7	57.6	45.5	31.8
25000	40.7	40.5	41.5	37.5	33.7	32.5	31.2	33.3	37.8	36.5	43.3	46.5	54.3	60.8	62.6	62.5	51.8	38.9	21.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 03
AIRCRAFT CODE 061
OPERATION CODE 01006
PROFILE VERSION A
17 DEC 75
PAGE E3

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
INTERMEDIATE POWER (MIL)
90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	116.5	117.4	119.0	117.8	116.5	117.8	118.5	119.7	121.0	120.8	125.1	125.5	129.3	139.1	139.2	136.8	125.9	115.9	105.8
250	114.4	115.2	116.9	115.6	114.3	115.6	116.2	117.4	118.8	118.6	122.8	123.2	127.2	136.8	137.0	134.6	123.8	113.8	103.7
315	112.2	113.1	114.7	113.3	112.1	113.3	113.9	115.0	116.5	116.3	120.5	120.9	125.0	134.5	134.7	132.4	121.7	111.7	101.6
400	110.0	110.8	112.4	111.0	109.8	110.9	111.6	112.7	114.1	113.9	118.1	118.5	122.8	132.0	132.5	130.2	119.6	109.6	99.4
500	107.7	108.5	110.1	108.7	107.3	108.5	109.1	110.2	111.6	111.4	115.7	116.0	120.6	129.5	130.1	127.9	117.4	107.3	97.1
630	105.4	106.2	107.8	106.2	104.8	105.9	106.6	107.7	109.1	108.8	113.1	113.5	118.2	126.8	127.5	125.5	115.1	105.0	94.7
800	102.9	103.7	105.3	103.6	102.2	103.3	104.0	105.0	106.4	106.0	110.4	110.8	115.8	124.3	124.8	123.1	112.7	102.6	92.3
1000	100.4	101.1	102.8	100.8	99.4	100.5	101.1	102.1	103.6	103.1	107.5	108.1	113.3	121.6	122.0	120.5	110.2	100.1	89.7
1250	97.7	98.4	100.0	98.0	96.5	97.5	98.1	99.0	100.6	100.0	104.5	105.3	110.6	118.5	119.2	117.8	107.3	97.1	86.7
1600	94.9	95.6	97.2	95.1	93.3	94.3	94.9	95.7	97.4	96.7	101.1	102.3	107.7	115.2	116.2	114.9	104.5	94.3	83.8
2000	92.0	92.6	94.2	92.0	89.9	90.9	91.4	92.2	94.0	93.1	97.5	99.2	104.8	111.7	113.1	111.9	101.5	91.2	80.7
2500	88.7	89.3	90.9	88.6	86.3	87.1	87.6	88.3	90.4	89.2	93.6	95.3	101.0	107.9	109.3	108.1	97.6	87.3	76.8
3150	85.1	85.8	87.4	85.0	82.6	83.2	83.4	84.1	86.3	85.0	89.3	91.0	96.9	103.8	105.0	103.8	93.3	82.9	72.5
4000	81.0	81.7	83.3	80.9	78.3	79.1	78.7	79.5	81.8	80.4	84.6	86.2	92.4	99.3	100.6	99.0	88.7	78.3	67.8
5000	76.4	77.1	78.8	76.2	73.6	74.6	74.0	74.6	76.9	75.4	79.7	81.3	87.6	94.4	95.9	94.1	83.9	73.5	62.9
6300	71.6	72.2	73.9	71.3	68.6	69.6	69.0	69.4	71.5	70.0	74.6	76.3	82.6	89.4	90.9	89.2	79.0	68.5	57.7
8000	67.6	68.2	69.9	67.1	64.4	65.1	64.3	64.7	66.8	65.5	70.4	72.3	78.8	85.4	86.9	85.5	75.4	64.8	53.7
10000	63.2	63.7	65.4	62.6	59.7	60.3	59.0	59.5	62.2	60.9	66.0	68.0	74.7	81.2	82.6	81.6	71.5	60.8	49.4
12500	58.6	58.8	60.5	57.5	54.6	54.8	53.3	54.0	57.3	56.0	61.2	63.5	70.4	76.8	78.3	77.3	67.3	56.3	44.2
16000	53.6	53.4	55.0	51.9	48.9	48.4	46.7	48.0	51.7	50.5	55.9	58.4	65.6	72.0	73.5	72.8	62.7	51.3	38.4
20000	47.8	47.5	48.8	45.3	41.9	40.9	39.6	41.2	45.4	44.1	50.1	52.8	60.3	66.7	68.3	67.7	57.6	45.6	31.8
25000	40.7	40.5	41.5	37.5	33.7	32.5	31.2	33.3	37.8	36.5	43.3	46.5	54.3	60.3	62.6	62.5	51.8	38.9	21.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 03
AIRCRAFT CODE 061
OPERATION CODE 01006
PROFILE VERSION A
17 DEC 75
PAGE F3

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
INTERMEDIATE POWER (MIL)
90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	105.5	106.2	107.9	105.9	103.7	104.9	105.2	106.3	107.8	106.5	110.9	111.6	115.2	124.9	125.5	122.9	112.6	102.6	92.6
250	103.5	104.1	105.8	103.8	101.6	102.7	103.0	103.9	105.6	104.3	108.7	109.5	114.1	122.7	123.4	120.8	110.5	100.5	90.5
315	101.4	102.0	103.7	101.7	99.4	100.6	100.8	101.7	103.4	102.1	106.5	107.3	112.0	120.4	121.2	118.7	108.5	98.5	88.5
400	99.3	99.8	101.5	99.5	97.2	98.4	98.6	99.4	101.2	99.8	104.2	105.1	109.9	118.2	119.0	116.6	106.4	96.4	86.4
500	97.1	97.7	99.4	97.3	95.0	96.1	96.3	97.1	98.9	97.5	101.9	102.8	107.7	115.9	116.7	114.4	104.2	94.2	84.2
630	94.9	95.5	97.2	95.1	92.7	93.8	93.9	94.7	96.5	95.1	99.5	100.5	105.5	113.5	114.4	112.2	102.0	92.0	82.0
800	92.7	93.2	94.9	92.8	90.4	91.4	91.5	92.2	94.1	92.6	97.0	98.1	103.3	111.1	112.0	109.8	99.7	89.7	79.7
1000	90.5	90.9	92.6	90.4	88.0	88.9	89.0	89.7	91.6	90.0	94.5	95.7	101.0	108.6	109.5	107.5	97.3	87.3	77.3
1250	88.1	88.5	90.2	88.0	85.4	86.3	86.3	87.1	89.0	87.3	91.9	93.1	98.5	105.9	106.9	105.0	94.7	84.7	74.7
1600	85.7	86.1	87.7	85.4	82.8	83.7	83.6	84.3	86.3	84.5	89.1	90.4	96.0	103.1	104.3	102.4	92.1	82.1	72.1
2000	83.2	83.5	85.2	82.8	80.1	80.9	80.7	81.4	83.5	81.6	86.3	87.7	93.4	100.3	101.5	99.7	89.3	79.3	69.3
2500	80.5	80.7	82.4	79.9	77.2	78.0	77.6	78.3	80.5	78.4	83.1	84.5	90.4	97.1	98.5	96.6	86.1	76.1	66.1
3150	77.4	77.7	79.4	76.9	74.0	74.8	74.3	74.9	77.2	75.0	79.7	81.1	87.0	93.7	95.1	93.1	82.6	72.6	62.6
4000	74.0	74.1	75.9	73.4	70.4	71.3	70.8	71.3	73.5	71.2	75.9	77.3	83.3	89.9	91.4	89.4	78.6	68.6	58.6
5000	70.0	70.1	71.9	69.4	66.4	67.4	66.8	67.3	69.5	67.1	71.7	73.1	79.0	85.7	87.3	85.1	74.3	64.3	54.3
6300	65.7	65.8	67.6	65.1	62.1	63.1	62.4	62.9	65.1	62.6	67.2	68.6	74.6	81.2	82.9	80.7	69.8	59.8	49.8
8000	61.9	62.0	63.8	61.2	58.1	59.0	58.1	58.5	60.8	58.4	63.1	64.7	71.0	77.3	79.0	77.0	66.2	56.2	46.2
10000	57.9	57.8	59.6	56.9	53.7	54.4	53.3	53.8	56.2	53.9	58.9	60.6	67.1	73.1	74.8	73.0	62.4	52.4	42.4
12500	53.3	53.3	55.0	52.1	48.9	49.4	48.0	48.6	51.2	49.1	54.2	56.1	62.8	68.5	70.3	68.7	58.4	48.4	38.4
16000	48.3	48.2	49.8	46.8	43.7	43.8	42.3	43.0	45.9	44.0	49.3	51.3	58.1	63.6	65.4	64.0	53.9	43.9	33.9
20000	42.7	42.6	44.1	41.0	37.9	37.6	36.1	37.0	40.1	38.5	43.8	46.0	53.0	58.4	60.0	59.0	49.1	39.1	29.1
25000	36.4	36.3	37.6	34.5	31.6	30.8	29.5	30.6	33.8	32.7	38.0	40.3	47.3	52.8	54.3	53.5	44.0	34.0	24.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OASA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 3282

OPERATION:
INTERMEDIATE POWER (MIL)
90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 03
AIRCRAFT CODE 061
OPERATION CODE 01006
PROFILE VERSION A
17 DEC 75
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	105.5	106.2	107.9	105.9	103.7	104.3	105.2	106.0	107.8	106.5	110.9	111.6	116.7	124.9	125.5	122.9	112.6	102.6	92.6
250	103.5	104.1	105.9	103.8	101.6	102.7	103.0	103.9	105.6	104.3	108.7	109.5	114.7	122.7	123.4	120.8	110.5	100.5	90.5
315	101.4	102.0	103.7	101.7	99.4	100.6	100.8	101.7	103.4	102.1	106.5	107.3	112.6	120.4	121.2	118.7	108.5	98.5	88.5
400	99.3	99.8	101.5	99.5	97.2	98.4	98.6	99.4	101.2	99.8	104.2	105.1	110.5	118.2	119.0	116.6	106.4	96.4	86.4
500	97.1	97.7	99.4	97.3	95.0	96.1	96.3	97.1	98.9	97.5	101.9	102.9	108.3	115.9	116.7	114.4	104.2	94.2	84.2
630	94.9	95.5	97.2	95.1	92.7	93.9	93.9	94.7	96.5	95.1	99.5	100.5	106.1	113.5	114.4	112.2	102.0	92.0	82.0
800	92.7	93.2	94.9	92.8	90.4	91.4	91.5	92.2	94.1	92.6	97.0	98.1	103.9	111.1	112.0	109.8	99.7	89.7	79.7
1000	90.5	90.9	92.6	90.4	88.0	88.3	89.0	89.7	91.6	90.0	94.5	95.7	101.5	108.6	109.5	107.5	97.3	87.3	77.3
1250	88.1	88.5	90.2	88.0	85.4	86.3	86.3	87.1	89.0	87.3	91.9	93.1	99.1	105.9	106.9	105.0	94.7	84.7	74.7
1600	85.7	86.1	87.7	85.4	82.8	83.7	83.6	84.3	86.3	84.5	89.1	90.4	96.6	103.1	104.3	102.4	92.1	82.1	72.1
2000	83.2	83.5	85.2	82.8	80.1	80.9	80.7	81.4	83.5	81.6	86.3	87.7	94.0	100.3	101.5	99.7	89.3	79.3	69.3
2500	80.5	80.7	82.4	79.9	77.2	78.0	77.6	78.3	80.5	78.4	83.1	84.5	91.0	97.1	98.5	96.6	86.1	76.1	66.1
3150	77.4	77.7	79.4	76.9	74.0	74.8	74.3	74.9	77.2	75.0	79.7	81.1	87.6	93.7	95.1	93.1	82.6	72.6	62.6
4000	74.0	74.1	75.9	73.4	70.4	71.3	70.8	71.3	73.5	71.2	75.9	77.3	83.7	89.9	91.4	89.4	78.6	68.6	58.6
5000	70.0	70.1	71.9	69.4	66.4	67.4	66.8	67.3	69.5	67.1	71.7	73.1	79.4	85.7	87.3	85.1	74.3	64.3	54.3
6300	65.7	65.8	67.6	65.1	62.1	63.1	62.4	62.9	65.1	62.6	67.2	68.6	74.9	81.2	82.9	80.7	69.8	59.8	49.8
8000	61.9	62.0	63.8	61.2	58.1	59.0	58.1	58.5	60.8	58.4	63.1	64.7	71.1	77.3	79.0	77.0	66.2	56.2	46.2
10000	57.9	57.8	59.6	56.9	53.7	54.4	53.3	53.8	56.2	53.9	58.9	60.6	67.1	73.1	74.8	73.0	62.4	52.4	42.4
12500	53.3	53.3	55.0	52.1	48.9	49.4	48.0	48.6	51.2	49.1	54.2	56.1	62.8	68.5	70.3	68.7	58.4	48.4	38.4
16000	48.3	48.2	49.8	46.8	43.7	43.8	42.3	43.0	45.9	44.0	49.3	51.3	58.1	63.6	65.4	64.0	53.9	43.9	33.9
20000	42.7	42.6	44.1	41.0	37.9	37.6	36.1	37.0	40.1	38.5	43.8	46.0	53.0	58.4	60.0	59.0	49.1	39.1	29.1
25000	36.4	36.3	37.6	34.5	31.6	30.8	29.5	30.6	33.8	32.7	38.0	40.3	47.3	52.8	54.3	53.5	44.0	34.0	24.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

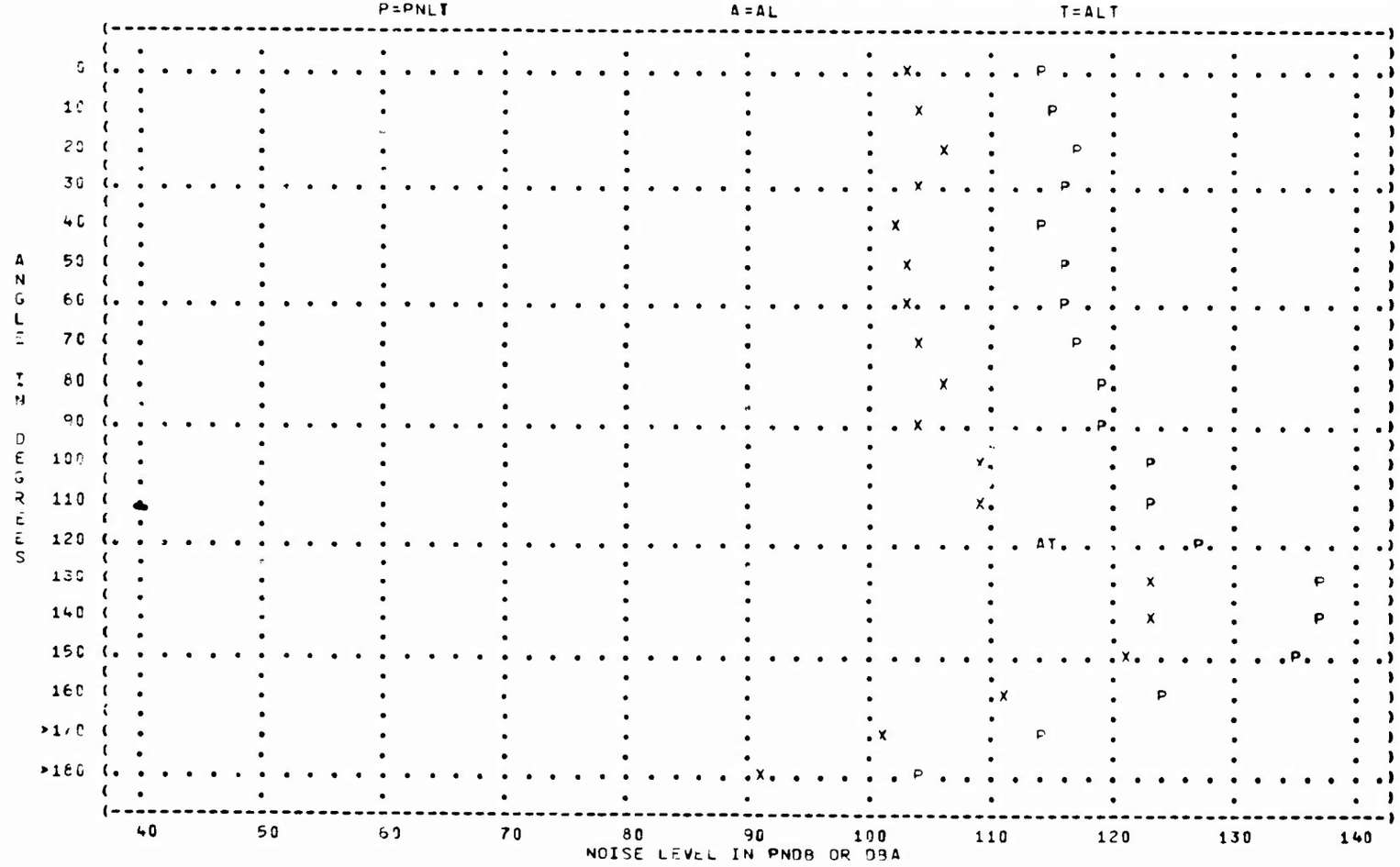
NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
INTERMEDIATE POWER (MIL)
90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-01C
RUN 03
AIRCRAFT CODE 061
OPERATION CODE 01006
PROFILE VERSION A
17 DEC 75
PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 04
AIRCRAFT CODE 061
OPERATION CODE 01001
PROFILE VERSION A
17 DEC 75
PAGE C4

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
AFTERBURNER, ZONE 5
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	94	93	93	95	96	95	96	96	98	98	99	104	110	116	118	109	111	101	91
63	96	95	96	96	96	97	96	98	100	101	101	107	114	120	120	108	109	99	89
80	97	98	98	98	99	98	97	100	102	104	104	111	119	123	120	112	112	102	92
100	99	100	99	100	100	100	101	102	104	106	107	112	119	125	121	113	112	102	92
125	100	101	102	100	101	101	102	104	105	107	108	114	120	124	122	113	112	102	92
160	101	102	101	101	101	102	103	104	106	107	112	118	124	123	122	114	113	103	93
200	101	103	102	102	103	102	103	104	107	108	112	118	126	125	120	113	113	103	93
250	102	103	103	103	103	102	103	104	107	107	111	118	125	124	119	110	110	100	90
315	99	100	103	103	102	102	102	105	107	107	112	120	124	122	117	109	110	100	90
400	99	102	103	102	101	99	100	103	106	106	112	117	123	120	115	108	109	99	89
500	98	100	101	100	100	98	99	101	107	106	112	115	121	118	113	106	107	97	87
630	99	101	103	101	99	99	100	102	106	106	112	113	119	116	112	106	105	95	85
800	97	100	101	100	97	99	100	102	106	106	112	112	117	115	110	104	104	94	84
1000	95	98	99	98	95	98	100	101	106	105	111	111	116	114	109	102	103	93	83
1250	93	97	97	97	95	97	99	101	105	105	111	110	114	114	109	102	101	91	81
1600	93	98	98	98	95	98	100	102	106	107	112	111	115	115	109	102	101	91	81
2000	93	97	97	98	97	99	102	103	105	106	111	110	114	113	108	100	99	89	79
2500	89	93	94	95	95	97	100	101	104	106	111	110	113	113	108	99	97	87	77
3150	87	91	92	94	94	97	99	100	103	105	110	109	112	112	106	98	94	84	74
4000	88	92	93	95	95	98	100	102	104	107	112	111	115	114	109	99	95	85	75
5000	85	88	89	91	91	94	97	98	101	104	109	109	114	113	106	96	91	81	71
6300	82	85	87	88	88	92	94	97	99	103	109	108	114	113	105	94	88	78	68
8000	80	83	85	86	87	90	93	96	99	104	111	110	116	115	108	96	89	79	69
10000	76	79	81	82	83	87	91	94	97	102	109	108	116	116	105	94	85	75	65
OVERALL	111	112	113	113	112	113	114	116	118	119	124	128	134	134	130	122	122	112	102

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 04
AIRCRAFT CODE 061
OPERATION CODE 01001
PROFILE VERSION A
17 DEC 75
PAGE 04

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
AFTERBURNER, ZONE 5
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	120.3	123.1	123.8	124.4	123.8	125.7	127.7	129.5	132.2	134.2	139.4	140.0	144.9	144.2	139.2	130.5	129.4	119.4	109.4
250	118.2	120.9	121.6	122.2	121.6	123.5	125.4	127.2	129.9	131.9	137.1	137.7	142.6	141.9	136.9	128.3	127.3	117.3	107.3
315	116.0	118.7	119.4	120.0	119.3	121.1	123.0	124.9	127.5	129.5	134.7	135.4	140.2	139.6	134.6	126.0	125.2	115.1	105.1
400	113.7	116.4	117.1	117.7	116.9	118.7	120.6	122.5	125.1	127.1	132.2	133.0	137.8	137.1	132.2	123.7	122.9	112.9	102.9
500	111.3	114.1	114.8	115.3	114.5	116.2	118.0	119.9	122.6	124.5	129.6	130.4	135.2	134.6	129.7	121.3	120.6	110.6	100.4
630	108.9	111.6	112.3	112.9	112.0	113.6	115.4	117.2	120.0	121.7	126.9	127.7	132.6	131.9	127.1	118.8	118.3	108.2	98.0
800	106.3	109.0	109.8	110.3	109.4	110.9	112.7	114.4	117.4	118.8	123.9	125.0	130.1	129.1	124.5	116.2	115.8	105.8	95.5
1000	103.7	106.3	107.1	107.5	106.6	108.1	109.9	111.6	114.5	115.8	120.8	122.3	127.4	126.3	121.8	113.6	113.3	103.2	92.9
1250	100.9	103.5	104.4	104.6	103.6	105.1	106.9	108.6	111.5	112.7	117.7	119.2	124.5	123.3	118.8	110.7	110.5	100.4	90.0
1600	98.0	100.6	101.4	101.4	100.4	101.9	103.6	105.3	108.2	109.4	114.3	115.9	121.5	120.3	115.7	107.8	107.6	97.4	87.0
2000	94.9	97.5	98.3	98.0	97.2	98.4	100.1	101.8	104.8	105.8	110.7	112.7	118.4	117.1	112.6	104.6	104.6	94.3	83.9
2500	91.3	93.7	94.9	94.2	93.3	94.5	96.3	97.9	101.0	101.9	106.9	108.8	114.5	113.2	108.7	100.7	100.8	90.4	80.0
3150	87.5	89.8	91.2	90.3	89.2	90.2	92.0	93.6	97.0	97.7	102.8	104.5	110.2	108.8	104.4	96.5	96.5	86.1	75.7
4000	83.2	85.5	87.0	86.0	84.7	85.5	87.2	88.9	92.4	93.1	98.3	99.9	105.6	104.1	99.6	92.0	92.0	81.6	71.2
5000	78.5	80.8	82.3	81.2	79.8	80.5	82.0	83.8	87.5	88.1	93.3	95.0	100.8	99.2	94.7	87.1	87.2	76.8	66.3
6300	73.6	75.9	77.3	76.2	74.8	75.4	76.6	78.6	82.2	82.8	88.2	90.0	95.9	94.1	89.5	82.1	82.2	71.8	61.1
8000	69.5	71.8	73.3	72.0	70.8	71.1	72.3	74.3	78.0	78.3	84.0	86.0	92.1	90.3	85.7	78.2	78.5	68.0	57.0
10000	65.2	67.4	68.9	67.6	66.5	66.6	67.7	69.7	73.6	73.7	79.4	81.8	88.0	86.2	81.7	74.2	74.5	63.9	52.7
12500	60.4	62.6	64.1	62.7	61.9	61.6	62.7	64.7	68.9	68.9	74.6	77.4	83.7	81.9	77.4	69.8	70.2	59.3	47.7
16000	55.1	57.3	58.7	57.4	56.7	56.1	57.0	59.3	63.8	63.7	69.6	72.6	79.1	77.3	72.9	65.1	65.6	54.4	41.9
20000	49.4	51.6	52.7	51.7	51.1	50.2	51.1	53.5	58.1	58.0	64.0	67.3	74.0	72.3	67.9	60.0	60.5	48.7	35.0
25000	42.5	44.8	45.7	44.8	44.3	43.0	44.0	47.0	51.7	51.7	57.8	61.4	68.3	66.9	62.6	54.2	54.6	41.9	26.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 04
AIRCRAFT CODE 061
OPERATION CODE 01001
PROFILE VERSION A
17 DEC 75
PAGE E4

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
AFTERBURNER; ZONE 5
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	120.3	123.1	123.8	124.4	123.8	125.7	127.7	129.5	132.2	134.2	139.4	140.0	144.9	144.2	139.2	130.5	129.4	119.4	109.4
250	118.2	120.9	121.6	122.2	121.6	123.5	125.4	127.2	129.9	131.9	137.1	137.7	142.6	141.9	136.9	128.3	127.3	117.3	107.3
315	116.0	118.7	119.4	120.0	119.3	121.1	123.0	124.9	127.5	129.5	134.7	135.4	140.2	139.6	134.6	126.0	125.2	115.1	105.1
400	113.7	116.4	117.1	117.7	116.9	118.7	120.6	122.5	125.1	127.1	132.2	133.0	137.8	137.1	132.2	123.7	122.9	112.9	102.9
500	111.3	114.1	114.8	115.3	114.5	116.2	118.0	119.9	122.6	124.5	129.6	130.4	135.2	134.6	129.7	121.3	120.6	110.6	100.4
630	108.9	111.6	112.3	112.9	112.0	113.6	115.4	117.2	120.0	121.7	126.9	127.7	132.6	131.9	127.1	118.8	118.3	108.2	98.0
800	106.3	109.0	109.8	110.3	109.4	110.9	112.7	114.4	117.4	118.8	123.9	125.0	130.1	129.1	124.5	116.2	115.8	105.8	95.5
1000	103.7	106.3	107.1	107.5	106.6	108.1	109.9	111.6	114.5	115.8	120.8	122.3	127.4	126.3	121.8	113.6	113.3	103.2	92.9
1250	100.9	103.5	104.4	104.6	103.6	105.1	106.9	108.6	111.5	112.7	117.7	119.2	124.5	123.3	118.8	110.7	110.5	100.4	90.0
1600	98.0	100.6	101.4	101.4	100.4	101.9	103.6	105.3	108.2	109.4	114.3	115.9	121.5	120.3	115.7	107.8	107.6	97.4	87.0
2000	94.9	97.5	98.3	98.0	97.2	98.4	100.1	101.8	104.8	105.8	110.7	112.7	118.4	117.1	112.6	104.6	104.6	94.3	83.9
2500	91.3	93.7	94.9	94.2	93.3	94.5	96.3	97.9	101.0	101.9	106.9	108.8	114.5	113.2	108.7	100.7	100.8	90.4	80.0
3150	87.5	89.8	91.2	90.3	89.2	90.2	92.0	93.6	97.0	97.7	102.8	104.5	110.2	108.8	104.4	96.5	96.5	86.1	75.7
4000	83.2	85.5	87.0	86.0	84.7	85.5	87.2	88.9	92.4	93.1	98.3	99.9	105.6	104.1	99.6	92.0	92.0	81.6	71.2
5000	79.5	80.8	82.3	81.2	79.8	80.5	82.0	83.8	87.5	88.1	93.3	95.0	100.8	99.2	94.7	87.1	87.2	76.8	66.3
6300	73.6	75.9	77.3	76.2	74.8	75.7	76.6	78.6	82.2	82.8	88.2	90.0	95.9	94.1	89.5	82.1	82.2	71.8	61.1
8000	69.5	71.8	73.3	72.0	70.8	71.1	72.3	74.3	78.0	78.3	84.0	86.0	92.1	90.3	85.7	78.2	78.5	68.0	57.0
10000	65.2	67.4	68.9	67.6	66.5	66.6	67.7	69.7	73.6	73.7	79.4	81.8	88.0	86.2	81.7	74.2	74.5	63.9	52.7
12500	60.4	62.6	64.1	62.7	61.9	61.6	62.7	64.7	68.9	68.9	74.6	77.4	83.7	81.9	77.4	69.8	70.2	59.3	47.7
16000	55.1	57.3	58.7	57.4	56.7	56.1	57.0	59.3	63.8	63.7	69.6	72.6	79.1	77.3	72.9	65.1	65.6	54.4	41.9
20000	49.4	51.6	52.7	51.7	51.1	50.2	51.1	53.5	58.1	58.0	64.0	67.3	74.0	72.3	67.9	60.0	60.5	48.7	35.0
25000	42.5	44.8	45.7	44.8	44.3	43.0	44.0	47.0	51.7	51.7	57.8	61.4	68.3	66.9	62.6	54.2	54.6	41.9	26.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
AFTERBURNER, ZONE 5
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 04
AIRCRAFT CODE 061
OPERATION CODE 01001
PROFILE VERSION A
17 DEC 75
PAGE F4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	107.6	110.3	111.4	111.0	109.8	111.4	113.3	115.0	118.3	119.6	125.1	125.6	130.7	129.3	124.1	116.2	115.8	105.8	95.8
250	105.5	108.2	109.3	108.9	107.6	109.2	111.1	112.8	116.1	117.3	122.8	123.4	128.5	127.0	121.9	114.1	113.7	103.7	93.7
315	103.4	106.1	107.1	106.7	105.5	107.0	108.8	110.6	113.9	115.0	120.5	121.2	126.2	124.7	119.7	112.0	111.6	101.6	91.6
400	101.2	103.9	105.0	104.5	103.3	104.7	106.6	108.3	111.7	112.7	118.1	118.9	124.0	122.4	117.5	109.8	109.5	99.5	89.5
500	99.0	101.7	102.8	102.3	101.0	102.4	104.2	105.9	109.4	110.3	115.7	116.6	121.6	120.1	115.2	107.5	107.3	97.3	87.3
630	96.8	99.4	100.6	100.0	98.7	100.1	101.8	103.5	107.0	107.8	113.2	114.2	119.3	117.7	112.8	105.2	105.0	95.0	85.0
800	94.5	97.1	98.3	97.7	96.3	97.6	99.3	101.1	104.6	105.2	110.7	111.7	116.9	115.2	110.4	102.9	102.7	92.7	82.7
1000	92.1	94.7	95.9	95.2	93.8	95.1	96.7	98.5	102.1	102.6	108.1	109.2	114.4	112.6	107.8	100.4	100.3	90.3	80.3
1250	89.6	92.3	93.4	92.7	91.2	92.4	94.0	95.8	99.4	99.9	105.4	106.6	111.8	109.9	105.2	97.8	97.8	87.8	77.8
1600	87.1	89.7	90.9	90.0	88.6	89.6	91.2	93.0	96.7	97.1	102.6	103.9	109.1	107.2	102.4	95.1	95.2	85.2	75.2
2000	84.4	87.0	88.2	87.3	85.8	86.8	88.3	90.1	93.9	94.2	99.8	101.0	106.4	104.3	99.5	92.3	92.5	82.5	72.5
2500	81.5	84.0	85.3	84.3	82.7	83.7	85.1	87.0	90.9	91.0	96.7	97.9	103.3	101.1	96.3	89.3	89.4	79.4	69.4
3150	78.3	80.8	82.1	81.0	79.3	80.3	81.8	83.6	87.6	87.7	93.3	94.4	99.8	97.6	92.8	85.9	86.0	76.0	66.0
4000	74.7	77.2	78.5	77.3	75.5	76.6	78.0	79.9	83.9	84.0	89.7	90.6	96.0	93.8	88.9	82.1	82.3	72.3	62.3
5000	70.6	73.1	74.5	73.2	71.3	72.5	73.9	75.7	79.8	79.8	85.6	86.4	91.8	89.5	84.7	78.0	78.1	68.1	58.1
6300	66.3	68.7	70.1	68.8	66.9	68.1	69.5	71.3	75.4	75.4	81.1	81.9	87.4	85.1	80.2	73.6	73.7	63.7	53.7
8000	62.4	64.8	66.2	64.8	63.0	64.0	65.2	67.1	71.3	71.2	77.0	78.0	83.6	81.1	76.3	69.7	69.9	59.9	49.9
10000	58.2	60.5	62.0	60.5	58.8	59.5	60.7	62.6	66.8	66.6	72.5	73.8	79.6	77.0	72.2	65.6	65.8	55.8	45.8
12500	53.7	55.9	57.3	55.9	54.3	54.7	55.7	57.7	61.9	61.8	67.7	69.3	75.2	72.5	67.8	61.1	61.4	51.4	41.4
16000	48.6	50.8	52.2	50.8	49.5	49.4	50.4	52.5	56.6	56.5	62.5	64.4	70.5	67.8	63.1	56.3	56.7	46.7	36.7
20000	43.2	45.2	46.6	45.3	44.2	43.8	44.7	46.8	50.9	50.8	56.8	59.2	65.3	62.7	58.2	51.2	51.6	41.6	31.6
25000	37.2	39.2	40.4	39.3	38.5	37.8	38.5	40.7	44.7	44.6	50.5	53.5	59.8	57.4	53.1	45.8	46.2	36.2	26.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
AFTERBURNER, ZONE 5
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 04
AIRCRAFT CODE 061
OPERATION CODE 01001
PROFILE VERSION A
17 DEC 75
PAGE 64

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	107.6	110.3	111.4	111.0	109.8	111.4	113.3	115.0	118.3	119.6	125.1	125.6	130.7	129.3	124.1	116.2	115.8	105.8	95.8
250	105.5	108.2	109.3	108.9	107.6	109.2	111.1	112.8	116.1	117.3	122.8	123.4	128.5	127.0	121.9	114.1	113.7	103.7	93.7
315	103.4	106.1	107.1	106.7	105.5	107.0	108.8	110.6	113.9	115.0	120.5	121.2	126.2	124.7	119.7	112.0	111.6	101.6	91.6
400	101.2	103.9	105.0	104.5	103.3	104.7	106.6	108.3	111.7	112.7	118.1	118.9	124.0	122.4	117.5	109.8	109.5	99.5	89.5
500	99.0	101.7	102.8	102.3	101.0	102.4	104.2	105.9	109.4	110.3	115.7	116.6	121.6	120.1	115.2	107.5	107.3	97.3	87.3
630	96.8	99.4	100.6	100.0	98.7	100.1	101.8	103.5	107.0	107.8	113.2	114.2	119.3	117.7	112.8	105.2	105.0	95.0	85.0
800	94.5	97.1	98.3	97.7	96.3	97.6	99.3	101.1	104.6	105.2	110.7	111.7	116.9	115.2	110.4	102.9	102.7	92.7	82.7
1000	92.1	94.7	95.9	95.2	93.8	95.1	96.7	98.5	102.1	102.6	108.1	109.2	114.4	112.6	107.8	100.4	100.3	90.3	80.3
1250	89.6	92.3	93.4	92.7	91.2	92.4	94.0	95.8	99.4	99.9	105.4	106.6	111.8	109.9	105.2	97.8	97.8	87.8	77.8
1600	87.1	89.7	90.9	90.0	88.6	89.6	91.2	93.0	96.7	97.1	102.6	103.9	109.1	107.2	102.4	95.1	95.2	85.2	75.2
2000	84.4	87.0	88.2	87.3	85.8	86.8	88.3	90.1	93.9	94.2	99.8	101.0	106.4	104.3	99.5	92.3	92.5	82.5	72.5
2500	81.5	84.0	85.3	84.3	82.7	83.7	85.1	87.0	90.9	91.0	96.7	97.9	103.3	101.1	96.3	89.3	89.4	79.4	69.4
3150	78.3	80.8	82.1	81.0	79.3	80.3	81.8	83.6	87.6	87.7	93.3	94.4	99.8	97.6	92.8	85.9	86.0	76.0	66.0
4000	74.7	77.2	78.5	77.3	75.5	76.6	78.0	79.9	83.9	84.0	89.7	90.6	96.0	93.8	88.9	82.1	82.3	72.3	62.3
5000	70.6	73.1	74.5	73.2	71.3	72.5	73.9	75.7	79.8	79.8	85.6	86.4	91.8	89.5	84.7	78.0	78.1	68.1	58.1
6300	66.3	68.7	70.1	68.8	66.9	68.1	69.5	71.3	75.4	75.4	81.1	81.9	87.4	85.1	80.2	73.6	73.7	63.7	53.7
8000	62.4	64.8	66.2	64.8	63.0	64.0	65.2	67.1	71.3	71.2	77.0	78.0	83.6	81.1	76.3	69.7	69.9	59.9	49.9
10000	58.2	60.5	62.0	60.5	58.8	59.5	60.7	62.6	66.8	66.6	72.5	73.8	79.6	77.0	72.2	65.6	65.8	55.8	45.8
12500	53.7	55.9	57.3	55.9	54.3	54.7	55.7	57.7	61.9	61.8	67.7	69.3	75.2	72.5	67.8	61.1	61.4	51.4	41.4
16000	48.6	50.8	52.2	50.8	49.5	49.4	50.4	52.5	56.6	56.5	62.5	64.4	70.5	67.8	63.1	56.3	56.7	46.7	36.7
20000	43.2	45.2	46.6	45.3	44.2	43.8	44.7	46.8	50.9	50.8	56.8	59.2	65.3	62.7	58.2	51.2	51.6	41.6	31.6
25000	37.2	39.2	40.4	39.3	38.5	37.8	38.5	40.7	44.7	44.6	50.5	53.5	59.8	57.4	53.1	45.8	46.2	36.2	26.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

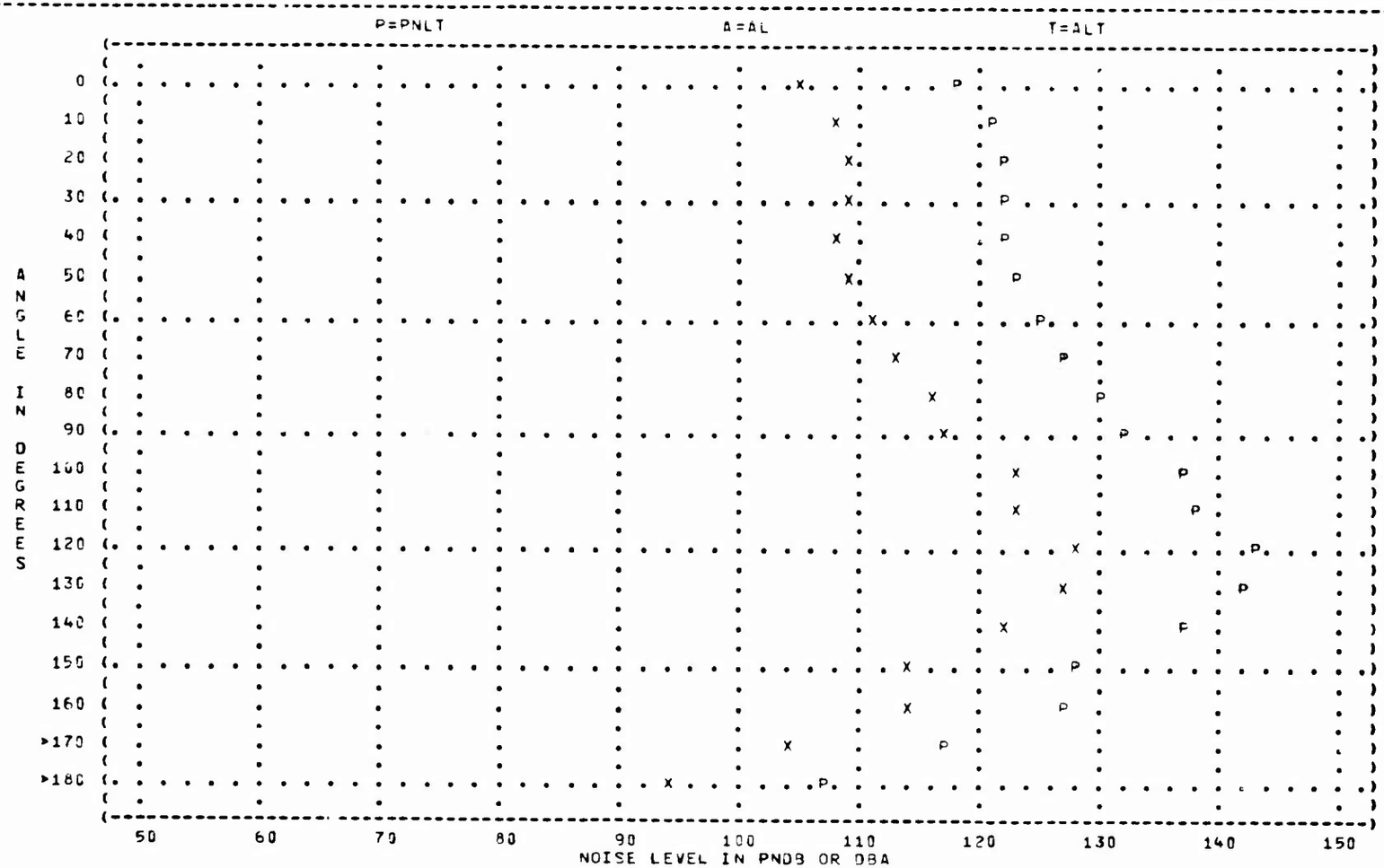
NOISE SOURCE/SUBJECT:
F-15A AIRCRAFT
ENG F100-PW-100(1)
GROUND RUNUP T NO. 0282

OPERATION:
AFTERBURNER, ZONE 5
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-010
RUN 04
AIRCRAFT CODE 061
OPERATION CODE 01001
PROFILE VERSION A
17 DEC 75
PAGE J4

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

NOISE PRODUCED ON THE GROUND BY

F-16 AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 038
PROFILE VERSION: 8
COMPUTER PROGRAM OMEGA 6.6

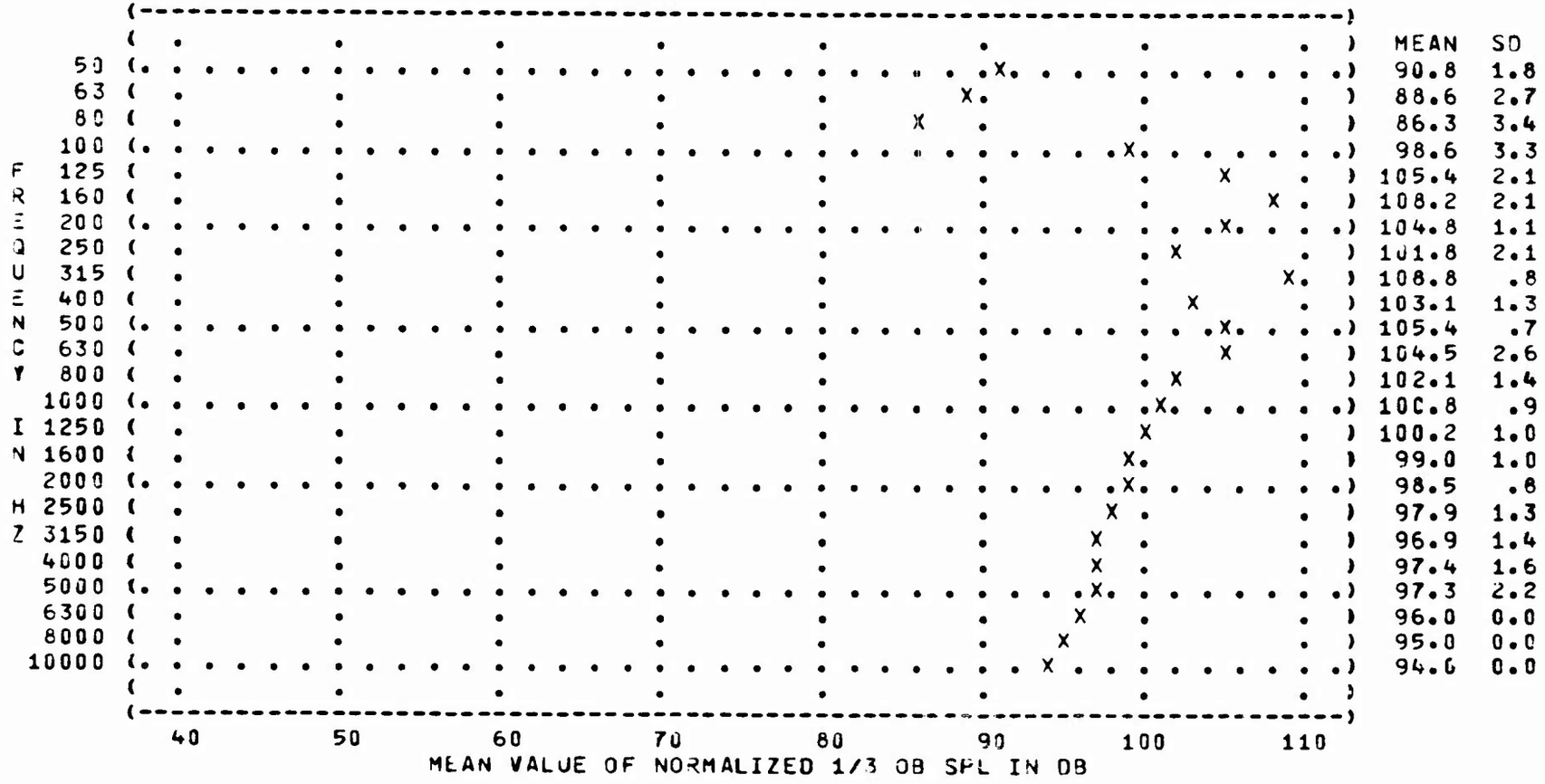
POWER SETTING	PAGE
AFTERBURNER 90% RPM, 900C TIT	415-423
TAKEOFF 90% RPM, 900C TIT	424-432
APPROACH 82% RPM, 650C TIT	433-441
INTERMEDIATE 85% RPM, 750C TIT	442-450
TRAFFIC PATTERN 75% RPM 530C TIT	451-459

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
- AIR-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
- GROUND-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

22 AUG 77

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO



F-16 AFTERBURNER POWER 90 % RPM 900 C TIT

AIRSPEED = 350 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 7

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-038-101-220877

PNLT = 126.2 PNDB
PNL = 125.1 PNDB
ALT = 113.1 DBA
AL = 112.0 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:

OMEGA 6.6

AIRCRAFT: F-16

OPERATION: AFTERBURNER POWER, 90 % RPM, 900 C TIT, AIRSPEED = 350 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: F

OPS CODE:

PROFILE V

22 AUG 77

PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39		
200	105	103	100	113	120	122	119	116	123	118	120	119	117	116	116	115	115	116	116	119	120	122	126	133	
250	103	101	98	111	118	120	117	114	121	116	118	117	115	114	114	113	113	113	114	116	117	119	123	130	
315	101	99	96	109	116	118	115	112	119	114	116	115	113	112	112	111	111	111	111	113	114	116	120	126	
400	99	97	94	107	113	116	113	110	117	111	114	113	111	110	110	109	109	109	109	111	112	113	116	121	
500	97	95	92	105	111	114	111	108	115	109	112	111	109	108	107	106	106	106	106	108	109	109	112	116	
630	95	93	90	103	109	112	109	106	113	107	110	109	107	105	105	104	104	104	103	105	105	106	107	110	
800	93	91	88	101	107	110	107	104	111	105	108	107	104	103	103	102	101	101	100	101	101	101	101	103	
1000	91	89	86	99	105	108	105	102	109<	103	105	105	102	101	100	99	99	98	97	97	97	96	95	94	
1250	89	87	84	97	103	106	103	100	107	101	103	102	100	98	98	96	96	95	93	93	93	90	87	84	
1600	87	85	82	94	101	104	101	98	105	99	101	100	97	96	95	93	92	91	89	88	87	83	78	71	
2000	85	82	80	92	99	102	98	95	102	96	99	97	95	93	92	90	89	87	85	83	81	75	67	56	
2500	83	80	78	90	97	100	96	93	100	94	96	95	92	90	89	87	85	83	81	79	76	73	65	54	38
3150	81	78	76	88	95	98	94	91	98	92	94	92	89	87	86	83	81	78	73	68	65	54	38	15	
4000	79	76	74	86	93	95	92	89	95	89	91	89	86	84	82	79	76	72	66	59	54	40	18		
5000	77	74	72	84	91	93	89	86	93	86	88	86	83	80	78	74	70	65	57	48	41	22			
6300	74	72	70	82	88	91	87	84	90	83	85	83	79	76	73	68	64	57	47	34	25	1			
8000	72	70	67	79	86	88	84	81	87	80	82	79	75	71	67	62	56	47	35	17	6				
10000	70	68	65	77	83	86	82	78	84	77	78	75	70	65	61	54	46	36	20						
12500	68	65	63	75	81	83	79	75	81	73	74	70	64	59	53	45	35	21	1						
16000	66	63	60	72	78	80	76	72	77	69	69	65	58	51	44	33	22	4							
20000	63	61	58	69	75	77	72	68	73	64	63	58	50	42	33	20	5								
25000	61	58	55	67	72	74	69	64	68	59	57	51	41	31	20	4									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-16

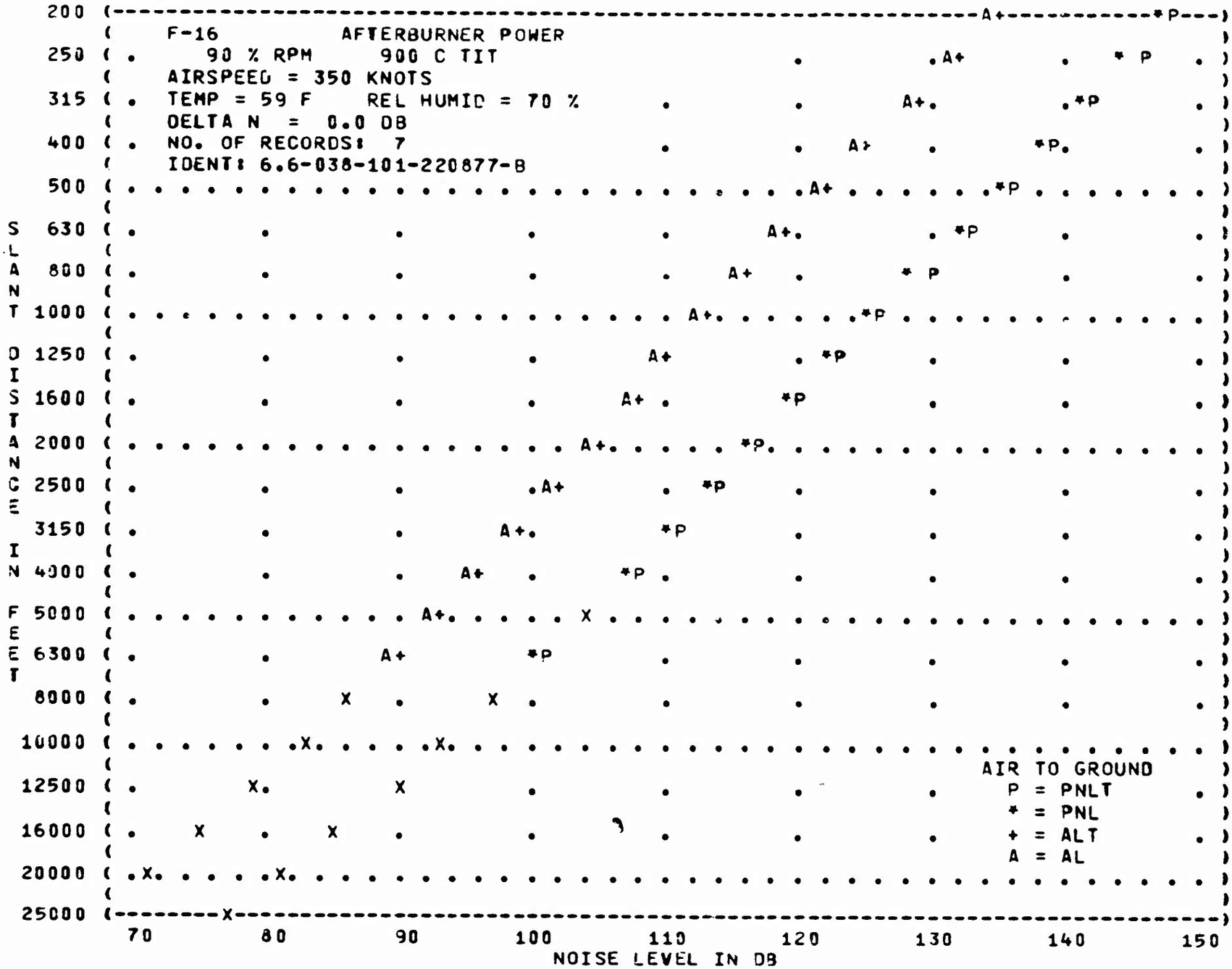
OPERATION:
AFTERBURNER POWER
90 % RPM 900 C TIT
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 038
OPS CODE: 101
PROFILE VER: B
22 AUG 77
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	133.9	134.9	147.4	148.5	131.4	132.4	135.3
250	130.8	131.9	144.5	145.6	129.3	130.3	133.4
315	127.6	128.7	141.4	142.5	127.1	128.2	131.3
400	124.3	125.4	138.1	139.1	124.8	125.9	128.9
500	121.0	122.1	134.6	135.6	122.5	123.6	126.4
630	117.9	118.9	131.6	132.7	120.4	121.4	124.5
800	114.9	115.9	128.4	129.5	118.4	119.4	122.3
1000	112.0	113.1	125.1	126.2	116.5	117.6	120.0
1250	109.3	110.4	122.1	123.2	114.8	115.8	118.0
1600	106.6	107.7	119.1	120.2	113.1	114.1	116.0
2000	103.9	104.9	116.1	117.2	111.4	112.4	114.0
2500	101.1	102.2	113.0	114.1	109.6	110.7	111.9
3150	98.3	99.4	109.9	111.0	107.8	108.9	109.8
4000	95.4	96.3	106.8	107.7	105.9	106.8	107.5
5000	92.4	93.0	103.6	104.2	103.9	104.5	105.1
6300	89.3	89.7	100.3	100.7	101.8	102.2	102.6
8000	86.0	86.2	96.9	97.1	99.5	99.7	99.9
10000	82.5	82.5	93.3	93.3	97.0	97.0	97.2
12500	78.8	78.8	89.6	89.6	94.4	94.4	94.4
16000	75.0	75.0	85.5	85.5	91.5	91.5	91.3
20000	70.9	70.9	81.3	81.3	88.4	88.4	88.2
25000	66.5	66.5	77.0	77.0	85.0	85.0	84.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-16 AFTERBURNER POWER
90 % RPM 900 C TIT
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 7
IDENT: 6.6-038-101-220877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

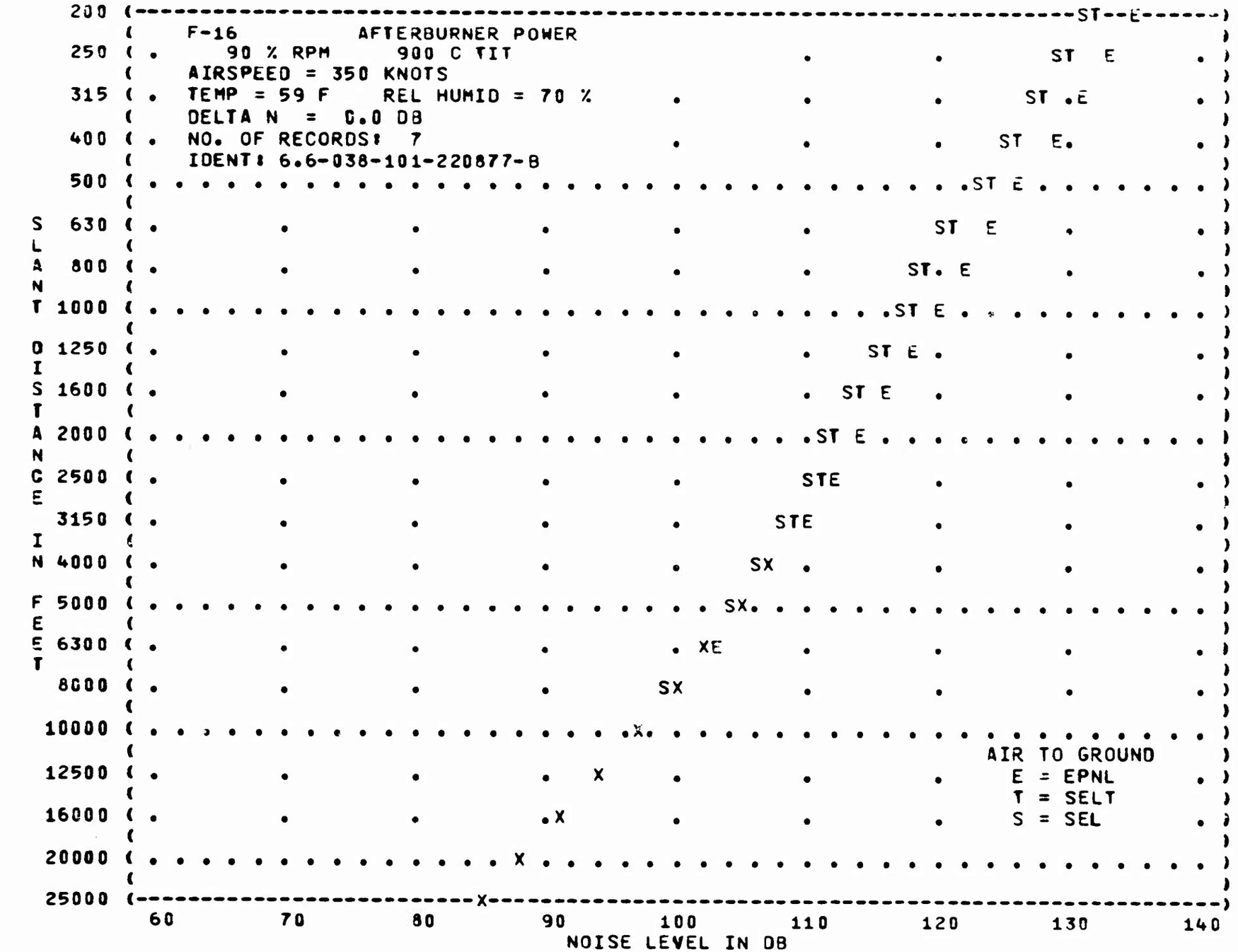

F-16 AFTERBURNER POWER
90 % RPM 900 C TIT
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 7
IDENT: 6.6-038-101-220877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 038
OPS CODE: 101
PROFILE VER: B
22 AUG 77
PAGE L1

AIRCRAFT: F-16

OPERATION:
AFTERBURNER POWER
90 % RPM 900 C TIT
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	100	98	95	108	115	117	114	111	118	113	115	114	112	111	111	110	110	111	111	114	115	117	121	128
250	98	96	93	106	113	115	112	109	116	111	113	112	110	109	109	108	108	108	109	111	112	114	118	125
315	96	94	91	104	111	113	110	107	114	109	111	110	108	107	107	106	106	106	106	108	109	111	115	121
400	94	92	89	102	108	111	108	105	112	106	109	108	106	105	105	104	104	104	104	106	107	108	111	116
500	92	90	87	100	106	109	105	103	110	104	107	106	104	103	102	101	101	101	101	103	104	104	107	111
630	90	88	85	98	104	106	103	100	108	102	105	104	102	100	100	99	99	99	98	100	100	101	102	105
800	88	86	83	95	101	103	100	97	106	100	103	102	99	98	98	97	96	96	95	96	96	96	96	98
1000	86	84	81	92	98	100	97	95	104<	98	100	100	97	96	95	94	94	93	92	92	92	91	90	89
1250	84	82	78	89	95	97	94	91	101	96	98	97	95	93	93	91	91	90	88	88	88	85	82	79
1600	82	78	75	86	91	94	90	88	97	94	96	95	92	91	90	88	87	86	84	83	82	78	73	66
2000	79	75	71	82	88	90	86	84	94	91	94	92	90	88	87	85	84	82	80	78	76	70	62	51
2500	75	71	67	78	83	86	82	79	90	88	91	90	87	85	84	82	80	78	74	71	68	60	49	33
3150	71	66	62	73	78	81	77	74	85	83	86	87	84	82	81	78	76	73	68	63	60	49	33	10
4000	67	61	57	67	73	75	71	69	80	79	84	84	81	79	77	74	71	67	61	54	49	35	13	
5000	61	57	52	62	68	70	66	64	74	73	79	79	77	75	73	69	65	60	52	43	36	17		
6300	56	52	48	58	63	65	61	59	68	67	75	75	73	71	68	63	59	52	42	29	20			
8000	54	50	45	55	61	63	59	56	65	64	72	71	69	66	62	57	51	42	30	12	1			
10000	52	48	43	53	58	60	56	53	62	61	68	67	64	60	56	49	41	31	15					
12500	50	45	41	51	56	58	53	50	59	57	64	62	58	54	48	40	30	15						
16000	48	43	38	48	53	55	50	47	55	53	59	57	52	46	39	28	17							
20000	45	41	36	45	50	52	47	43	51	48	53	50	44	37	28	15								
25000	43	38	33	43	47	48	43	39	46	43	47	43	35	26	15									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-16

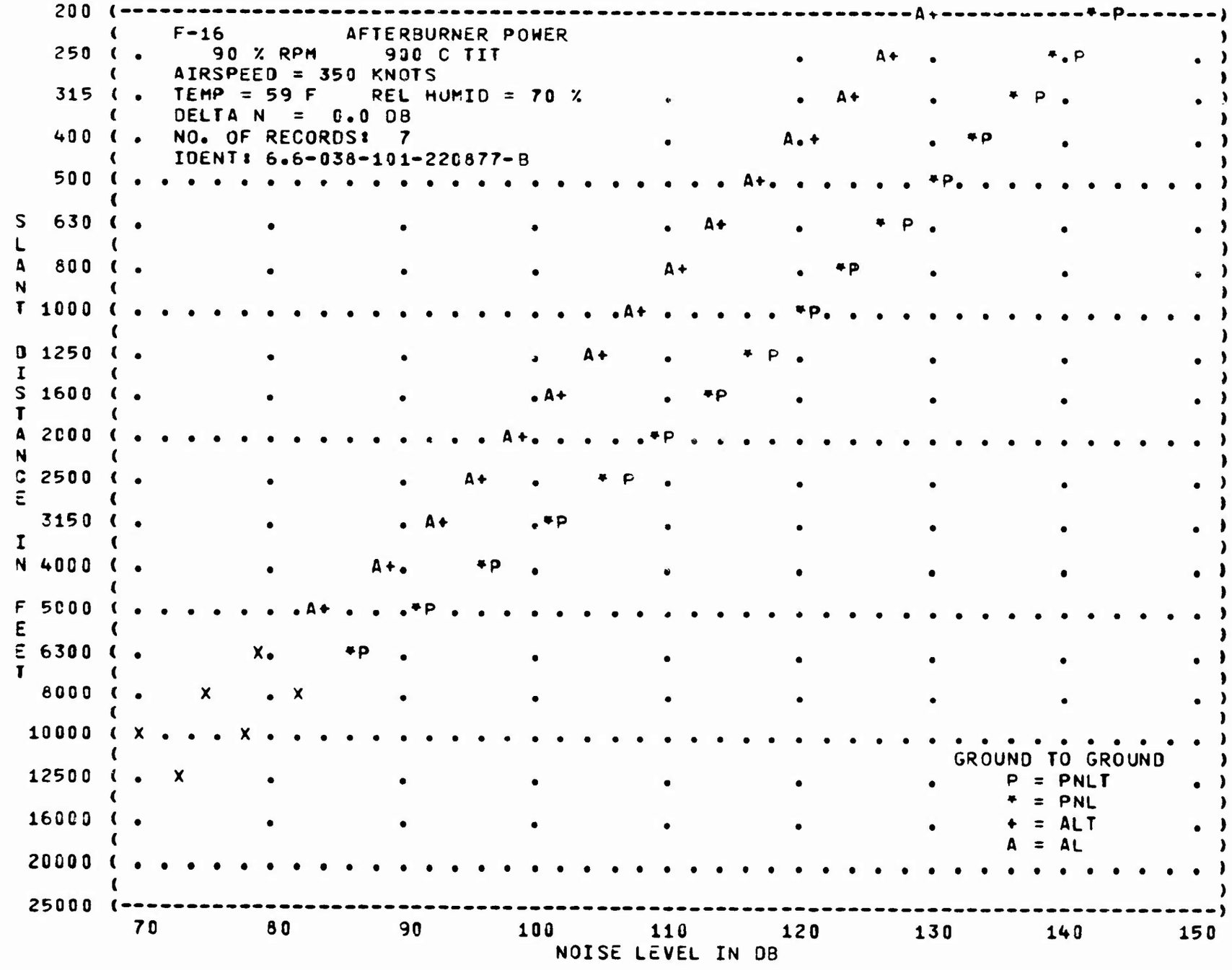
OPERATION:
AFTERBURNER POWER
96 % RPM 900 C TIT
AIRSPEED = 350 KNOTS

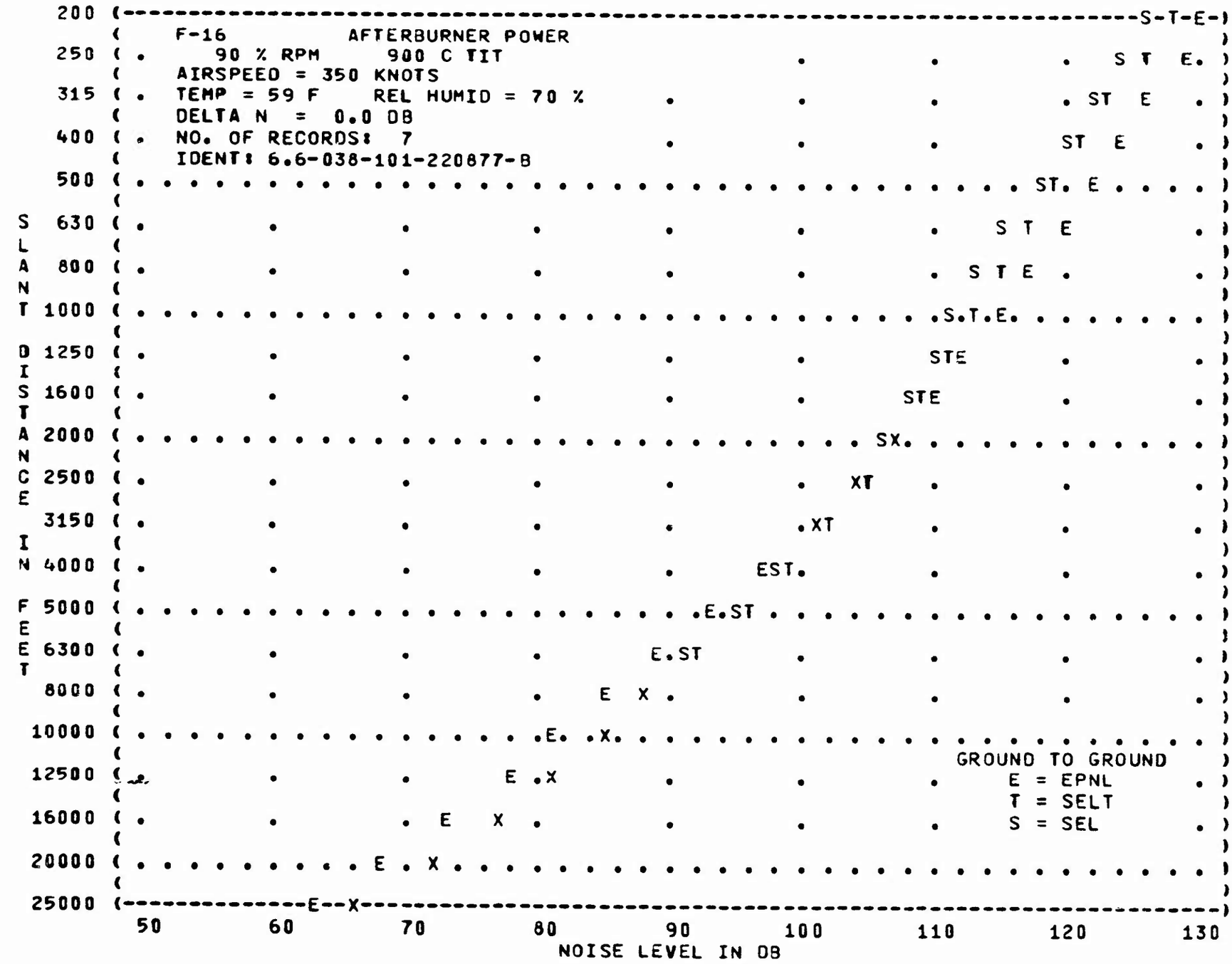
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

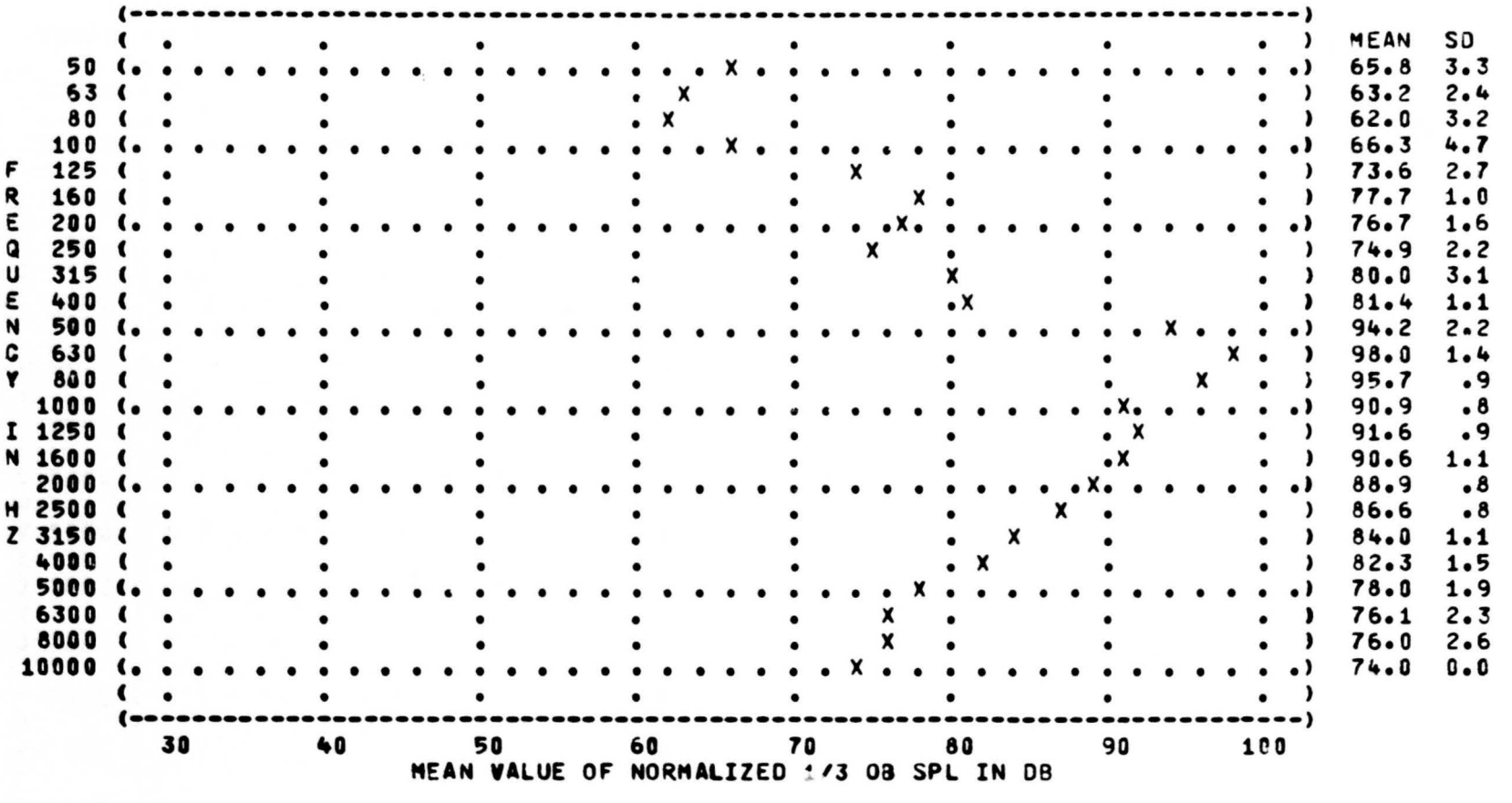
A/C CODE: 038
OPS CODE: 161
PROFILE VER: 8
22 AUG 77
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	128.9	130.1	142.4	143.6	126.4	127.6	130.4
250	125.8	127.0	139.5	140.7	124.3	125.5	128.5
315	122.6	123.8	136.4	137.6	122.1	123.3	126.4
400	119.3	120.5	133.1	134.3	119.8	121.0	124.1
500	116.0	117.2	129.5	130.8	117.5	118.7	121.6
630	112.8	114.1	126.5	127.7	115.3	116.5	119.5
800	109.8	111.0	123.3	124.5	113.3	114.5	117.3
1000	106.9	108.1	119.8	121.0	111.4	112.6	114.8
1250	104.0	105.2	116.3	117.5	109.5	110.7	112.4
1600	101.1	102.3	112.7	114.0	107.6	108.8	109.8
2000	98.2	99.4	109.1	110.4	105.7	106.9	107.2
2500	95.0	96.3	105.4	106.6	103.5	104.7	104.4
3150	91.6	92.8	101.1	102.4	101.1	102.3	101.2
4000	87.8	88.8	96.5	97.4	98.3	99.2	97.3
5000	83.5	84.2	91.4	92.2	95.0	95.7	93.0
6300	78.8	79.3	86.2	86.7	91.3	91.8	88.5
8000	74.7	74.9	82.0	82.2	88.2	88.4	85.1
10000	70.2	70.2	77.5	77.5	84.7	84.7	81.4
12500	65.3	65.3	72.7	72.7	80.8	80.8	77.6
16000	60.0	60.0	67.4	67.4	76.5	76.5	73.3
20000	54.2	54.2	61.6	61.6	71.7	71.7	68.5
25000	47.8	47.8	55.1	55.1	66.3	66.3	63.0

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-16 AFTERBURNER POWER
90 % RPM 900 C TIT
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 7
IDENT: 6.6-038-101-220877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-16 AFTERBURNER POWER
90 % RPM 900 C TIT
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 7
IDENT: 6.6-038-101-220877-B
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB



F-16 TAKEOFF POWER 90 % RPM 900 C TIT

AIRSPEED = 350 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 7

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-038-103-220877

PNLT = 113.2 PNDB
PNL = 111.4 PNDB
ALT = 103.7 DBA
AL = 101.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 038
OPS CODE: 103
PROFILE VER: B
22 AUG 77
PAGE H2

AIRCRAFT: F-16

OPERATION:
TAKEOFF POWER
90 % RPM 900 C TIT
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	80	77	76	80	88	92	91	89	94	96	109	113	111	107	108	107	106	105	104	105	102	104	111	118
250	78	75	74	78	86	90	89	87	92	94	107	111	109	104	106	105	104	103	102	102	99	101	107	114
315	76	73	72	76	84	88	87	85	90	92	105	109	107	102	103	103	102	100	99	100	97	98	104	110
400	74	71	70	74	82	86	85	83	88	90	103	107	105	100	101	101	99	98	97	97	94	95	100	105
500	72	69	68	72	80	84	83	81	86	88	101	105	103	98	99	98	97	95	94	94	90	91	95	99
630	70	67	66	70	78	82	81	79	84	86	99	102	100	96	97	96	94	93	91	90	87	87	90	92
800	68	65	64	68	76	80	79	77	82	84	96	100	98	93	94	93	92	90	88	87	83	82	83	84
1000	66	63	62	66	74	78	77	75	80	81	94<	98	96	91	92	91	89	87	84	82	78	76	76	74
1250	64	61	60	64	71	76	75	73	78	79	92	96	93	88	89	88	86	83	80	78	73	69	67	62
1600	62	59	58	62	69	73	72	71	76	77	90	93	91	86	86	85	82	79	76	72	67	62	57	48
2000	60	57	56	60	67	71	70	68	73	75	87	91	88	83	83	81	79	75	70	66	60	52	44	30
2500	58	55	54	58	65	69	68	66	71	72	85	88	85	80	80	78	74	70	65	58	51	41	29	9
3150	56	53	52	56	63	67	66	64	69	70	82	85	82	76	76	73	70	65	58	49	41	28	10	
4000	53	51	50	54	61	65	64	61	66	67	79	82	79	73	72	69	64	58	49	39	29	11		
5000	51	49	47	52	59	62	61	59	63	64	76	79	75	69	67	63	58	50	40	26	14			
6300	49	46	45	49	56	60	59	56	61	61	73	75	71	64	62	57	50	41	28	10				
8000	47	44	43	47	54	57	56	53	58	58	69	71	66	59	56	49	41	30	13					
10000	45	42	41	45	51	55	53	50	54	54	65	66	61	52	48	41	31	16						
12500	43	40	38	42	49	52	50	47	51	50	60	61	55	45	40	30	18							
16000	40	37	36	39	46	49	47	43	47	45	55	55	47	36	29	17	2							
20000	38	35	33	37	43	46	43	39	42	40	49	48	39	26	17	1								
25000	35	32	30	34	39	42	39	35	37	34	42	39	28	13	1									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-16

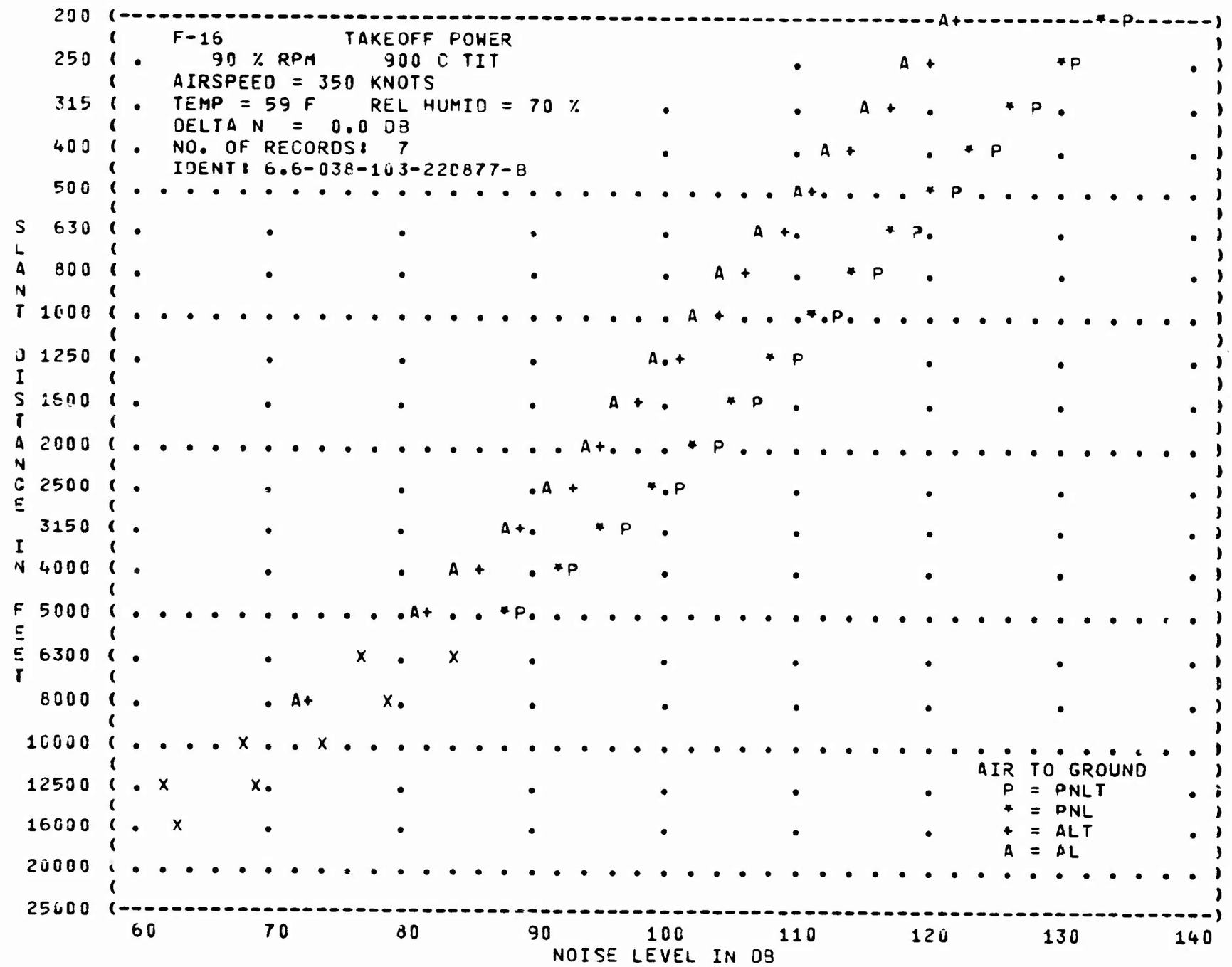
OPERATION:
TAKEOFF POWER
90 % RPM 900 C TIT
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 038
OPS CODE: 103
PROFILE VER: B
22 AUG 77
PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	120.6	122.4	132.7	134.5	118.3	119.5	122.9
250	117.8	119.6	129.6	131.4	115.4	117.7	120.8
315	115.0	116.8	126.3	128.2	114.6	115.9	118.6
400	112.2	114.1	122.9	124.7	112.9	114.2	116.1
500	109.5	111.4	120.1	121.9	111.2	112.5	114.3
630	107.0	108.8	117.2	119.0	109.6	110.9	112.4
800	104.4	106.2	114.3	116.2	108.1	109.3	110.6
1000	101.8	103.7	111.4	113.2	106.5	107.8	108.6
1250	99.2	101.0	108.4	110.2	104.9	106.1	106.6
1600	96.5	98.3	105.2	107.1	103.1	104.4	104.5
2000	93.7	95.5	102.0	103.8	101.3	102.6	102.2
2500	90.7	92.5	98.7	100.5	99.4	100.6	99.9
3150	87.6	89.4	95.2	97.0	97.2	98.5	97.4
4000	84.2	85.7	91.6	93.0	94.9	95.9	94.5
5000	80.6	81.7	87.7	88.8	92.3	93.0	91.4
6300	76.7	77.5	83.5	84.3	89.4	89.9	88.0
8000	72.4	72.8	79.0	79.4	86.1	86.4	84.2
10000	67.7	67.7	74.1	74.1	82.4	82.4	80.1
12500	62.4	62.4	68.6	68.6	78.1	78.1	75.6
16000	56.4	56.4	62.5	62.5	73.1	73.1	70.4
20000	49.7	49.7	56.0	56.0	67.4	67.4	65.0
25000	42.2	42.2	48.4	48.4	60.9	60.9	58.3

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-16 TAKEOFF POWER
90 % RPM 900 C TIT
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 7
IDENT: 6.6-038-103-220877-8
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

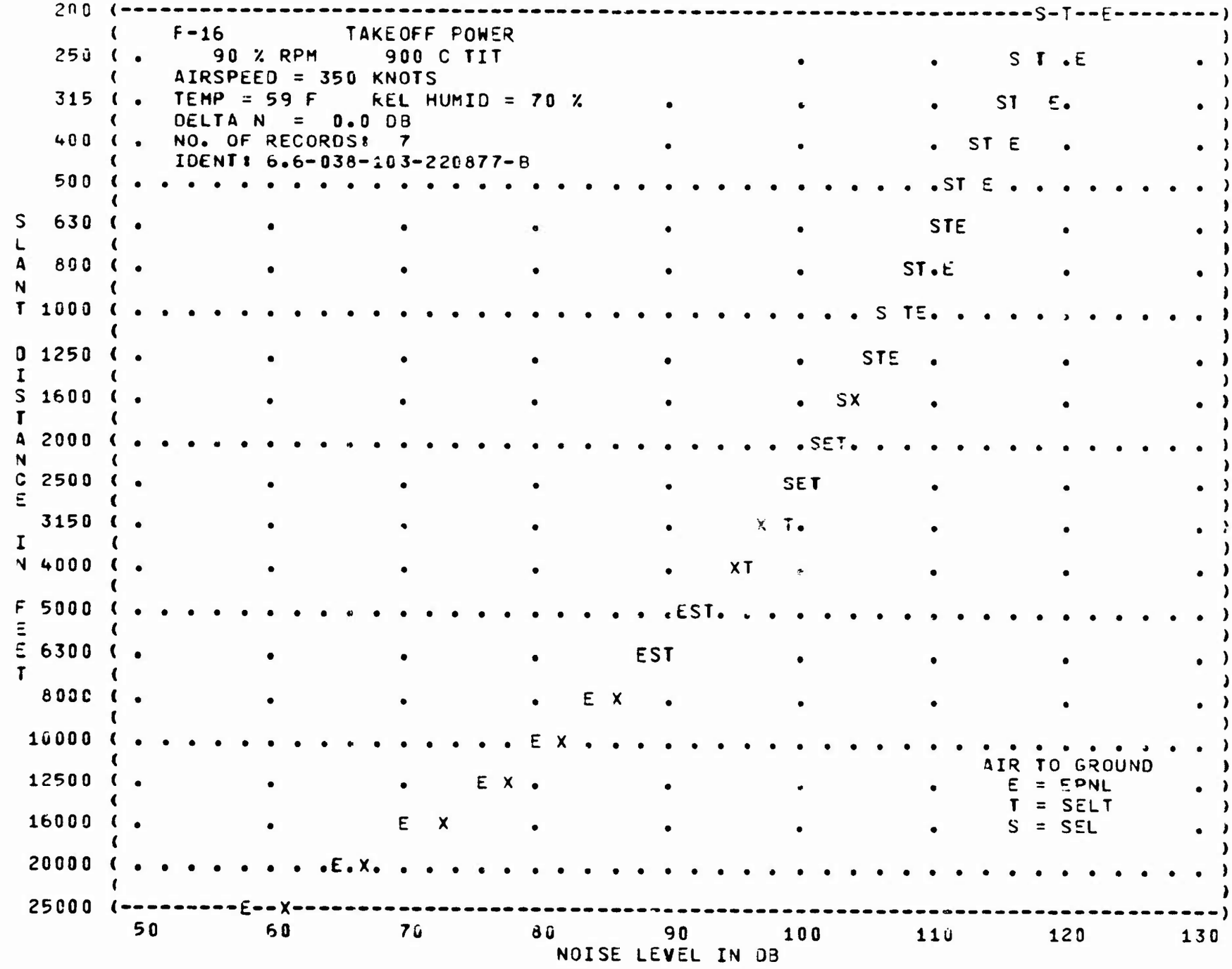

F-16 TAKEOFF POWER
90 % RPM 900 C TIT
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 7
IDENT: 6.6-038-103-220877-B
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-16

OPERATION:
TAKEOFF POWER
90 % RPM 900 C TIT
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 038
OPS CODE: 103
PROFILE VER: B
22 AUG 77
PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	75	72	71	75	83	87	86	84	89	91	104	108	106	102	103	102	101	100	99	100	97	99	106	113
250	73	70	69	73	81	85	84	82	87	89	102	106	104	99	101	100	99	98	97	97	94	96	102	109
315	71	68	67	71	79	83	82	80	85	87	100	104	102	97	98	98	97	95	94	95	92	93	99	105
400	69	66	65	69	77	81	80	78	83	85	98	102	100	95	96	96	94	93	92	92	89	90	95	100
500	67	64	63	67	75	78	77	76	81	83	96	100	98	93	94	93	92	90	89	89	85	86	90	94
630	65	62	61	65	72	76	75	73	79	81	94	97	95	91	92	91	89	88	86	85	82	82	85	87
800	63	60	59	63	69	73	72	71	77	79	91	95	93	88	89	88	87	85	83	82	78	77	78	79
1000	61	58	57	60	66	70	69	68	75	76	89<	93	91	86	87	86	84	82	79	77	73	71	71	69
1250	59	56	54	57	63	67	66	64	72	74	87	91	88	83	84	83	81	78	75	73	68	64	62	57
1600	57	53	51	53	60	63	62	61	68	72	85	88	86	81	81	80	77	74	71	67	62	57	52	43
2000	54	49	47	50	56	59	58	57	65	70	82	86	83	78	78	76	74	70	65	61	55	47	39	25
2500	50	45	43	45	51	55	54	52	61	66	80	83	80	75	75	73	69	65	60	53	46	36	24	4
3150	46	41	38	40	47	50	49	47	56	61	76	80	77	71	71	68	65	60	53	44	36	23	5	
4000	42	36	33	35	41	44	43	41	51	57	72	77	74	68	67	64	59	53	44	34	24	6		
5000	36	31	28	30	36	39	38	36	45	51	67	72	70	64	62	58	53	45	35	21	9			
6300	31	26	23	25	31	34	33	31	39	45	63	67	65	59	57	52	45	36	23	5				
8000	29	24	21	23	29	32	30	28	36	42	59	63	60	54	51	44	36	25	8					
10000	27	22	19	21	26	29	28	25	32	38	55	58	55	47	43	36	26	11						
12500	25	20	16	18	24	26	25	22	29	34	50	53	49	40	35	25	13							
16000	22	17	14	15	21	23	21	18	25	29	45	47	41	31	24	12								
20000	20	15	11	13	18	20	18	14	20	24	39	40	33	21	12									
25000	17	12	8	10	14	16	13	10	15	18	32	31	22	8										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-16

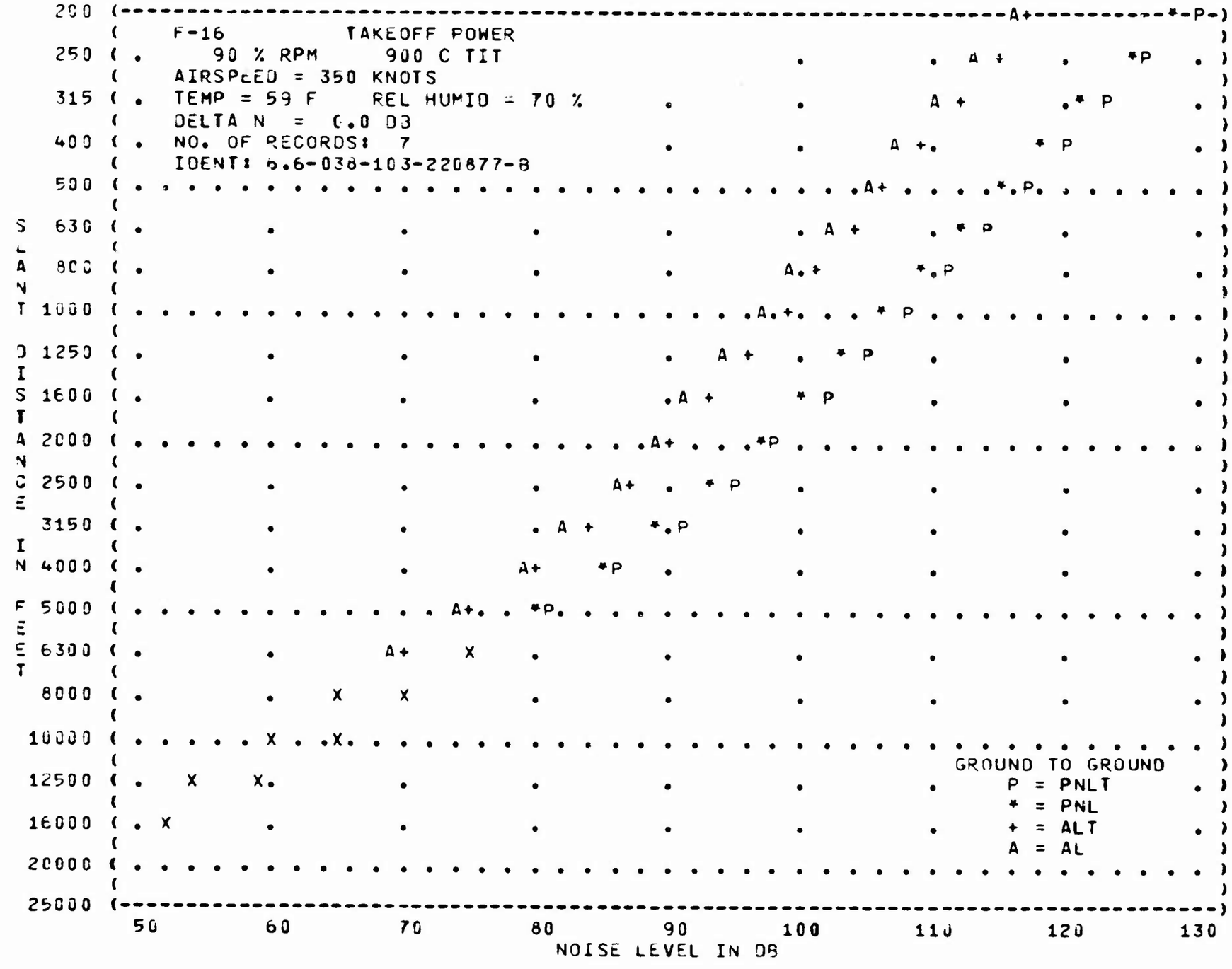
OPERATION:
TAKEOFF POWER
90 % RPM 900 C TIT
AIRSPEED = 350 KNOTS

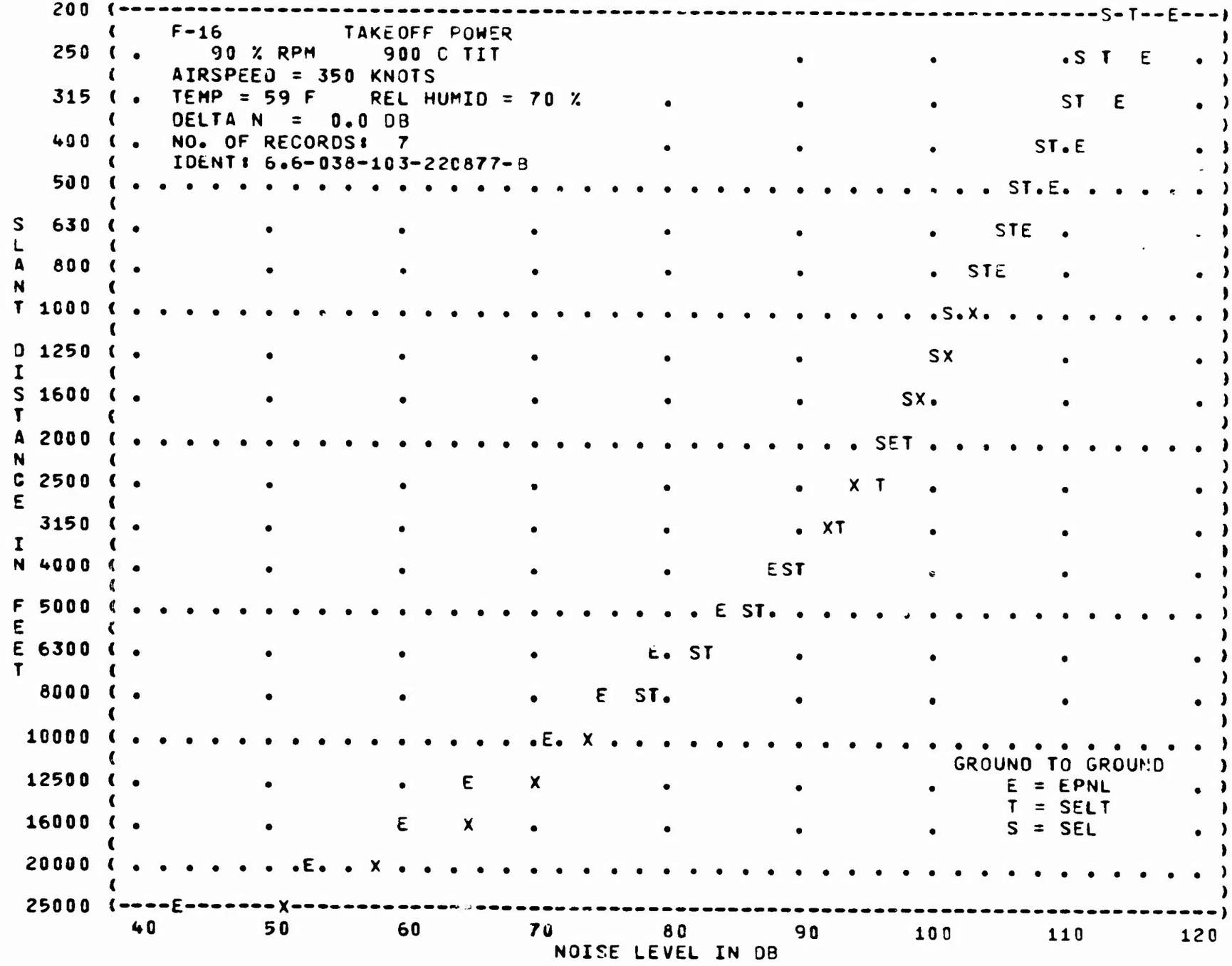
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

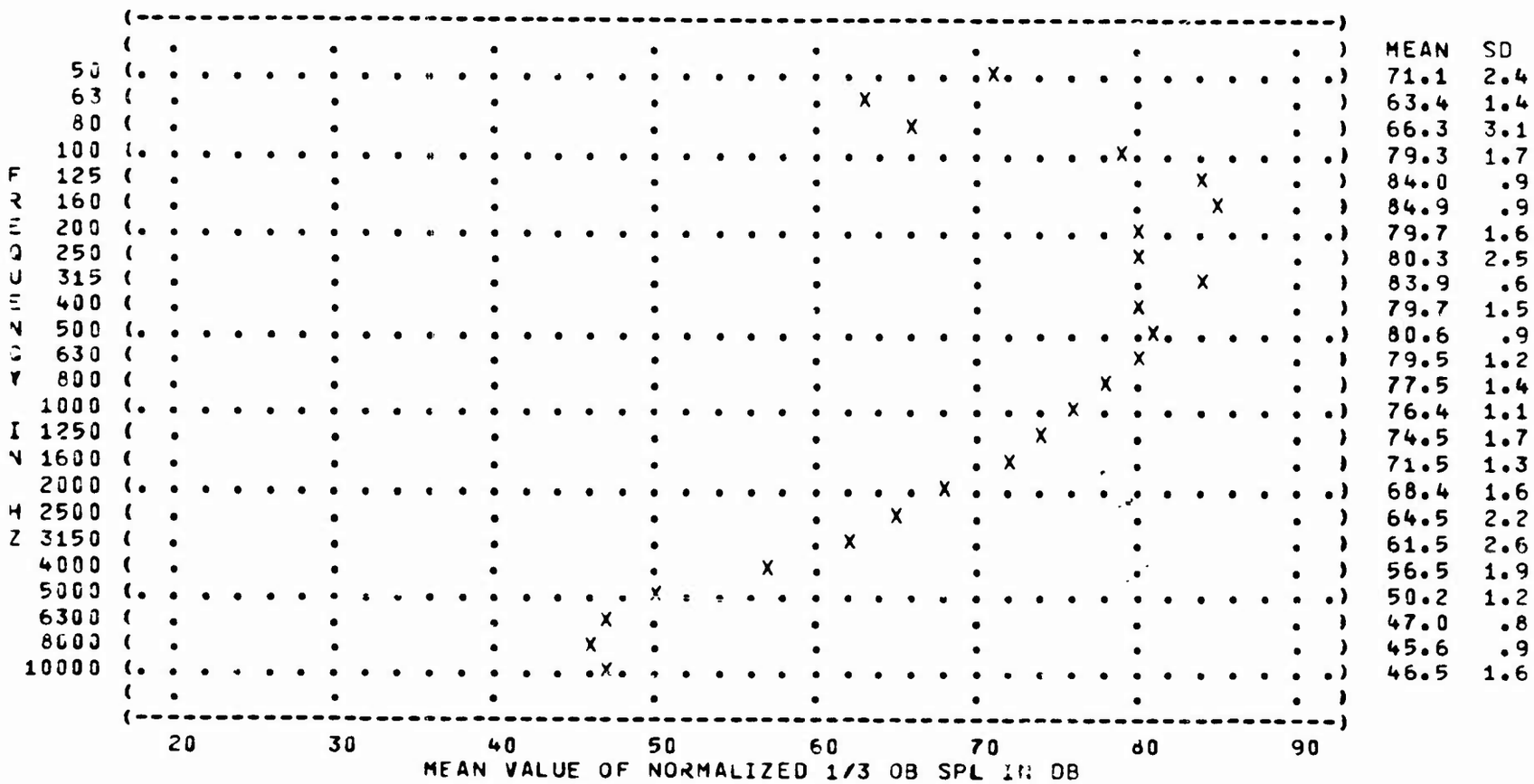
A/C CODE: 038
OPS CODE: 103
PROFILE VER: B
22 AUG 77
PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	115.6	117.4	127.7	129.5	113.3	114.5	117.9
250	112.8	114.6	124.6	126.4	111.4	112.7	115.8
315	110.0	111.8	121.3	123.2	109.6	110.9	113.6
400	107.2	109.1	117.9	119.7	107.9	109.2	111.1
500	104.5	106.4	115.1	116.9	106.2	107.5	109.3
630	101.9	103.8	112.1	114.0	104.6	105.9	107.4
800	99.4	101.2	109.2	111.1	103.1	104.3	105.5
1000	96.8	98.7	106.2	108.1	101.5	102.8	103.5
1250	94.2	96.0	103.1	105.0	99.9	101.1	101.4
1600	91.5	93.3	99.9	101.8	98.1	99.4	99.2
2000	88.7	90.5	96.6	98.4	96.3	97.5	96.8
2500	85.7	87.5	93.1	94.9	94.3	95.6	94.3
3150	82.4	84.2	89.3	91.2	92.1	93.3	91.6
4000	78.6	80.1	85.0	86.4	89.3	90.3	87.9
5000	74.2	75.3	80.0	81.1	85.9	86.6	83.7
6300	69.3	70.1	74.6	75.4	82.0	82.5	79.1
8000	64.8	65.2	69.9	70.2	78.5	78.7	75.1
10000	59.8	59.8	64.6	64.6	74.5	74.5	70.5
12500	54.2	54.2	58.5	58.5	69.9	69.9	65.5
16000	47.9	47.9	51.6	51.6	64.5	64.5	59.6
20000	40.6	40.6	43.6	43.6	58.3	58.3	52.6
25000	32.3	32.3	33.4	33.4	51.0	51.0	43.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-16 TAKEOFF POWER
90 % RPM 900 C TIT
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 D3
NO. OF RECORDS: 7
IDENT: 5.6-038-103-220877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-16 TAKEOFF POWER
90 % RPM 900 C TIT
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 7
IDENT: 6.6-038-103-220877-B
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



F-16 APPROACH POWER 82 % RPM 650 C TIT

AIRSPEED = 130 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 4

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-038-105-220877

PNLT = 97.9 PNDB
PNL = 97.3 PNDB
ALT = 86.6 DBA
AL = 86.0 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 038
OPS CODE: 105
PROFILE VER: B
22 AUG 77
PAGE H3

AIRCRAFT: F-16

OPERATION:
APPROACH POWER
82 % RPM 650 C TIT
AIRSPEED = 130 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	85	77	80	93	98	99	94	95	98	94	95	94	93	92	90	88	85	82	80	77	72	72	76	84
250	83	75	78	91	96	97	92	93	96	92	93	92	90	90	88	85	83	80	78	75	70	69	73	81
315	81	73	76	89	94	95	90	91	94	90	91	90	88	88	86	83	81	78	76	72	67	67	69	77
400	79	71	74	87	92	93	88	89	92	88	89	88	86	85	84	81	78	75	73	70	64	63	66	72
500	77	69	72	85	90	91	86	86	90	86	87	86	84	83	81	79	76	73	70	67	61	60	62	67
630	75	67	70	83	88	89	84	84	88	84	85	84	82	81	79	76	74	70	68	64	58	56	57	61
800	73	65	68	81	86	87	82	82	86	82	83	82	80	79	77	74	71	67	65	60	54	52	52	55
1000	71	63	66	79	84	85	80	80	84<	80	81	80	78	76	74	72	68	65	62	57	50	47	46	47
1250	69	61	64	77	82	83	78	78	82	77	78	77	75	74	72	69	66	61	58	52	46	41	38	37
1600	67	59	62	75	80	81	75	76	80	75	76	75	73	71	69	66	62	58	54	48	40	35	30	25
2000	65	57	60	73	78	79	73	74	77	73	74	72	70	69	66	63	59	54	50	42	34	27	19	11
2500	63	55	58	71	76	76	71	72	75	71	71	70	68	66	63	60	55	50	44	36	27	18	7	
3150	61	53	56	69	74	74	69	69	73	68	69	67	65	63	60	56	51	45	39	28	19	7		
4000	59	51	54	67	71	72	67	67	70	66	66	64	62	60	56	52	46	39	32	20	9			
5000	57	49	52	65	69	70	64	65	68	63	63	61	58	56	52	47	41	33	24	9				
6300	55	47	50	62	67	68	62	62	65	60	60	58	55	52	48	42	35	25	14					
8000	53	45	47	60	65	65	59	60	63	57	57	55	51	47	42	35	27	16	2					
10000	50	43	45	58	62	63	57	57	59	54	53	50	46	42	36	28	18	5						
12500	48	40	43	55	60	60	54	54	56	50	49	46	41	36	29	19	8							
16000	46	38	41	53	57	57	51	50	53	46	45	41	34	28	20	9								
20000	44	36	38	50	54	54	48	47	49	42	39	34	27	20	10									
25000	41	33	35	48	51	51	44	43	44	36	33	27	19	10										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-16

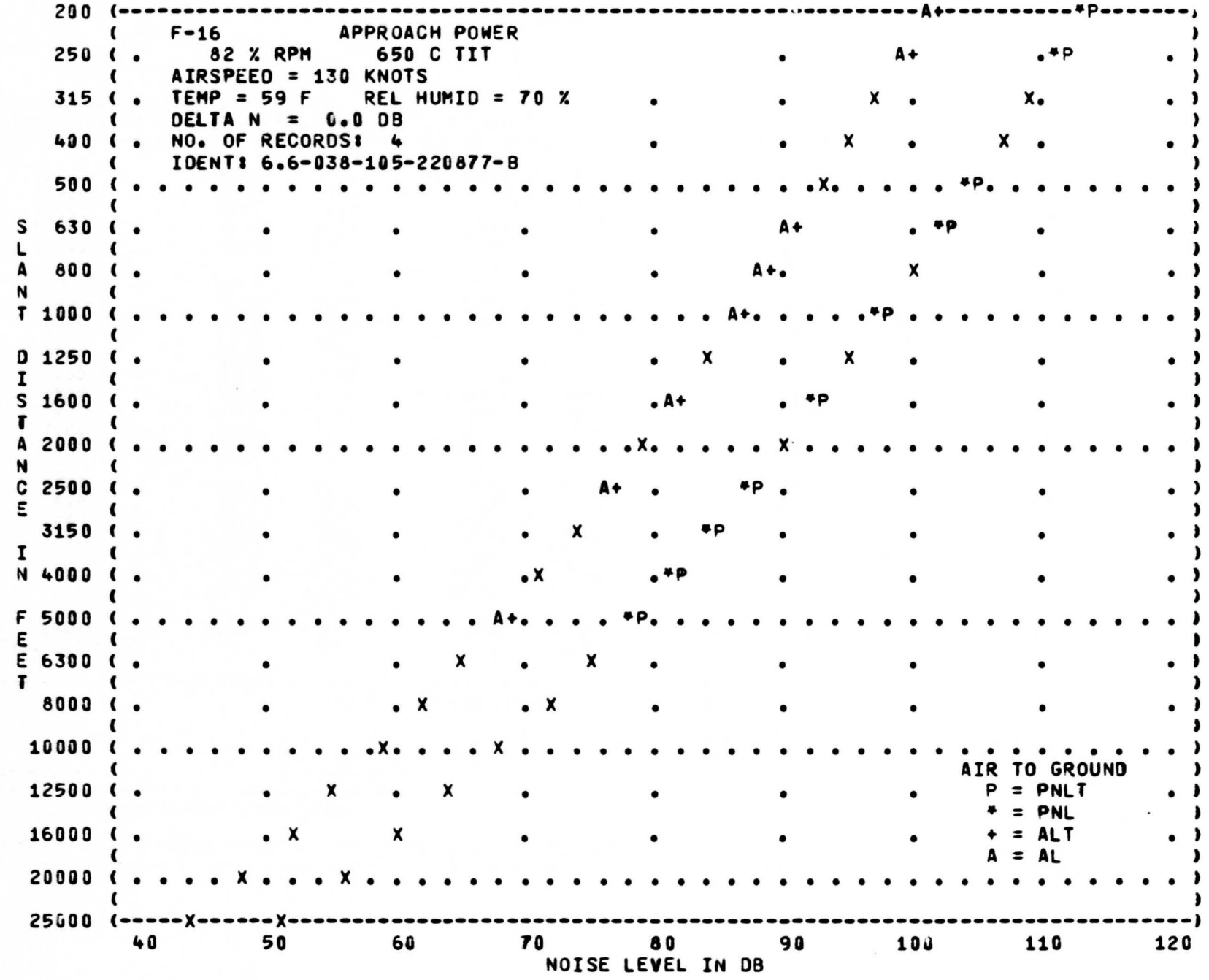
OPERATION:
APPROACH POWER
82 % RPM 650 C TIT
AIRSPEED = 130 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 038
OPS CODE: 105
PROFILE VER: B
22 AUG 77
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	101.1	101.6	113.2	113.8	101.5	102.4	104.7
250	99.0	99.6	111.1	111.6	100.4	101.3	103.5
315	96.9	97.4	108.9	109.4	99.3	100.2	102.3
400	94.8	95.3	106.6	107.2	98.2	99.1	101.1
500	92.6	93.2	104.4	104.9	97.1	98.0	99.8
630	90.4	91.0	102.1	102.6	95.9	96.8	98.5
800	88.2	88.8	99.7	100.3	94.7	95.6	97.2
1000	86.0	86.6	97.3	97.9	93.4	94.3	95.8
1250	83.7	84.3	94.8	95.4	92.1	93.0	94.3
1600	81.3	81.9	92.3	92.9	90.8	91.7	92.8
2000	78.9	79.5	89.7	90.3	89.4	90.3	91.2
2500	76.4	76.9	87.0	87.6	87.8	88.7	89.5
3150	73.7	74.3	84.2	84.8	86.2	87.1	87.7
4000	71.0	71.5	81.3	81.8	84.5	85.2	85.6
5000	68.2	68.5	78.3	78.6	82.6	83.2	83.4
6300	65.2	65.4	75.1	75.4	80.6	81.0	81.1
8000	62.0	62.1	71.8	71.9	78.5	78.7	78.6
10000	58.7	58.7	68.2	68.2	76.2	76.2	75.8
12500	55.2	55.2	64.4	64.4	73.7	73.7	73.0
16000	51.5	51.5	60.3	60.3	71.0	71.0	69.9
20000	47.6	47.6	55.8	55.8	68.1	68.1	66.4
25000	43.5	43.5	51.3	51.3	65.0	65.0	62.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-16 APPROACH POWER
82 % RPM 650 C TIT
AIRSPEED = 130 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-038-105-220877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

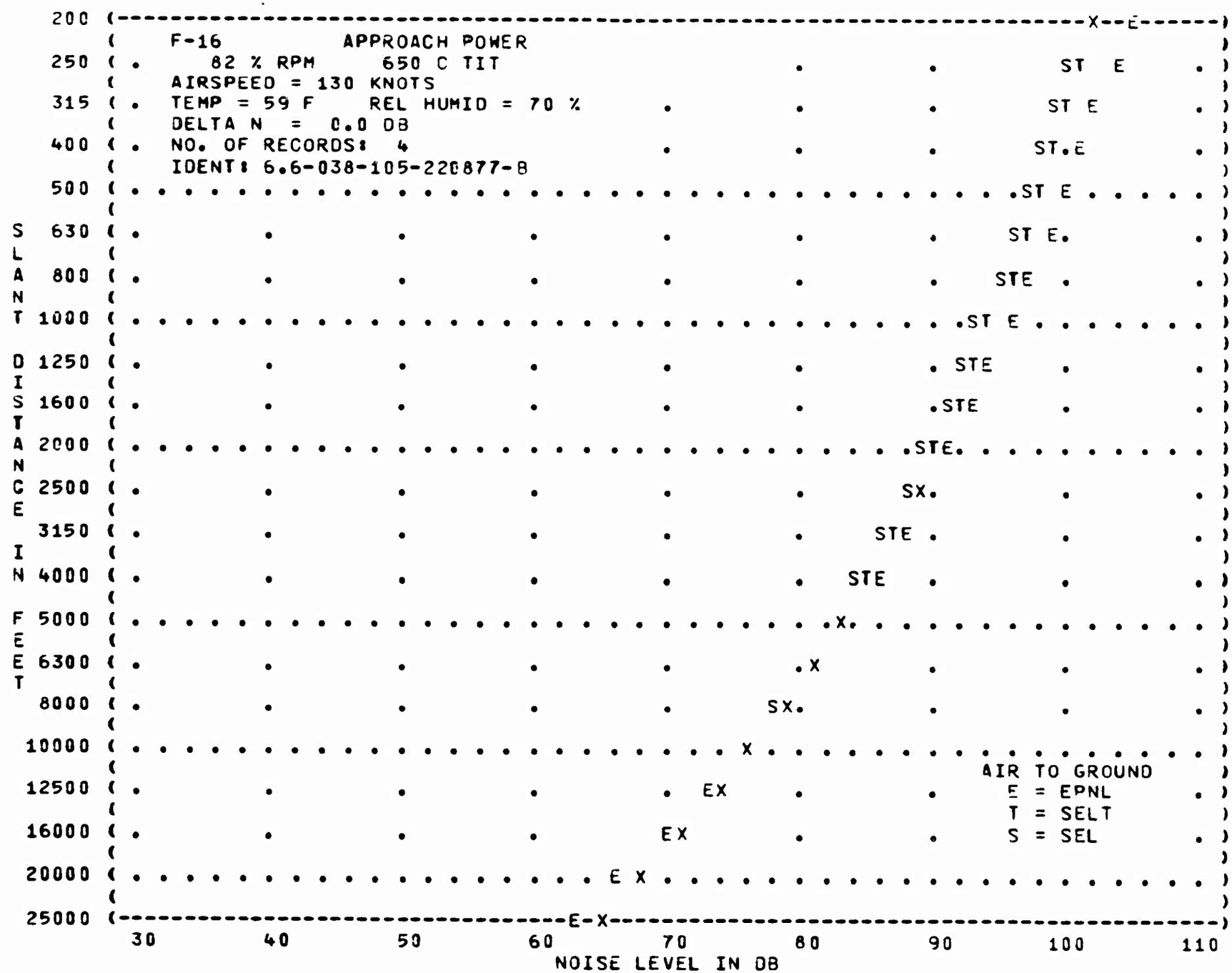

F-16 APPROACH POWER
82 % RPM 650 C TIT
AIRSPEED = 130 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-038-105-220877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-16

OPERATION:
APPROACH POWER
82 % RPM 650 C TIT
AIRSPEED = 130 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 038
OPS CODE: 105
PROFILE VER: B
22 AUG 77
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	80	72	75	88	93	94	89	90	93	89	90	89	88	87	85	83	80	77	75	72	67	67	71	79
250	78	70	73	86	91	92	87	88	91	87	88	87	85	85	83	80	78	75	73	70	65	64	68	76
315	76	68	71	84	89	90	85	86	89	85	86	85	83	83	81	78	76	73	71	67	62	62	64	72
400	74	66	69	82	87	88	83	84	87	83	84	83	81	80	79	76	73	70	68	65	59	58	61	67
500	72	64	67	80	85	85	80	81	85	81	82	81	79	78	76	74	71	68	65	62	56	55	57	62
630	70	62	65	78	82	83	78	79	83	79	80	79	77	76	74	71	69	65	63	59	53	51	52	56
800	68	60	63	76	80	80	75	76	81	77	78	77	75	74	72	69	66	62	60	55	49	47	47	50
1000	66	58	61	73	77	77	72	73	79<	75	76	75	73	71	69	67	63	60	57	52	45	42	41	42
1250	64	56	58	70	74	74	69	70	76	72	73	72	70	69	67	64	61	56	53	47	41	36	33	32
1600	62	53	55	66	70	70	65	66	73	70	71	70	68	66	64	61	57	53	49	43	35	30	25	20
2000	59	50	51	63	66	67	61	62	69	68	69	67	65	64	61	58	54	49	45	37	29	22	14	6
2500	55	46	47	58	62	62	57	58	65	64	66	65	63	61	58	55	50	45	39	31	22	13	2	
3150	51	41	42	54	57	57	52	53	60	60	63	62	60	58	55	51	46	40	34	23	14	2		
4000	47	36	37	48	51	52	46	47	55	55	59	59	57	55	51	47	41	34	27	15	4			
5000	42	31	32	43	47	47	41	42	49	50	55	55	53	51	47	42	36	28	19	4				
6300	37	27	28	38	42	42	36	37	43	44	50	50	49	47	43	37	30	20	9					
8000	35	25	25	36	40	40	34	35	41	41	47	47	45	42	37	30	22	11						
10000	32	23	23	34	37	37	31	32	37	38	43	42	40	37	31	23	13							
12500	30	20	21	31	35	34	28	29	34	34	39	38	35	31	24	14	3							
16000	28	18	19	29	32	32	25	25	31	30	35	33	28	23	15	4								
20000	26	16	16	26	29	29	22	22	27	26	29	26	21	15	5									
25000	23	13	13	24	26	25	19	18	22	20	23	19	13	5										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-16

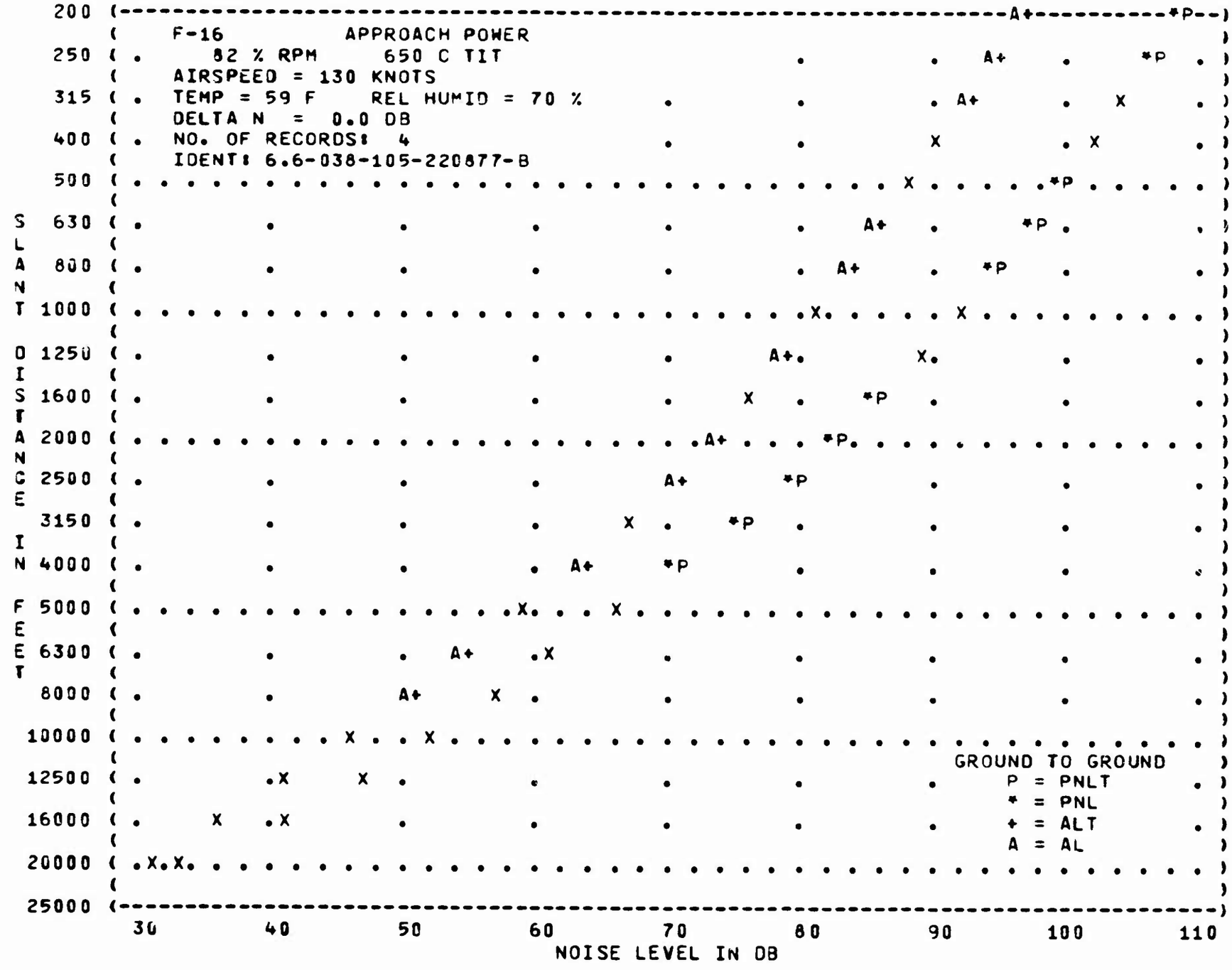
OPERATION:
APPROACH POWER
82 % RPM 650 C TIT
AIRSPEED = 130 KNOTS

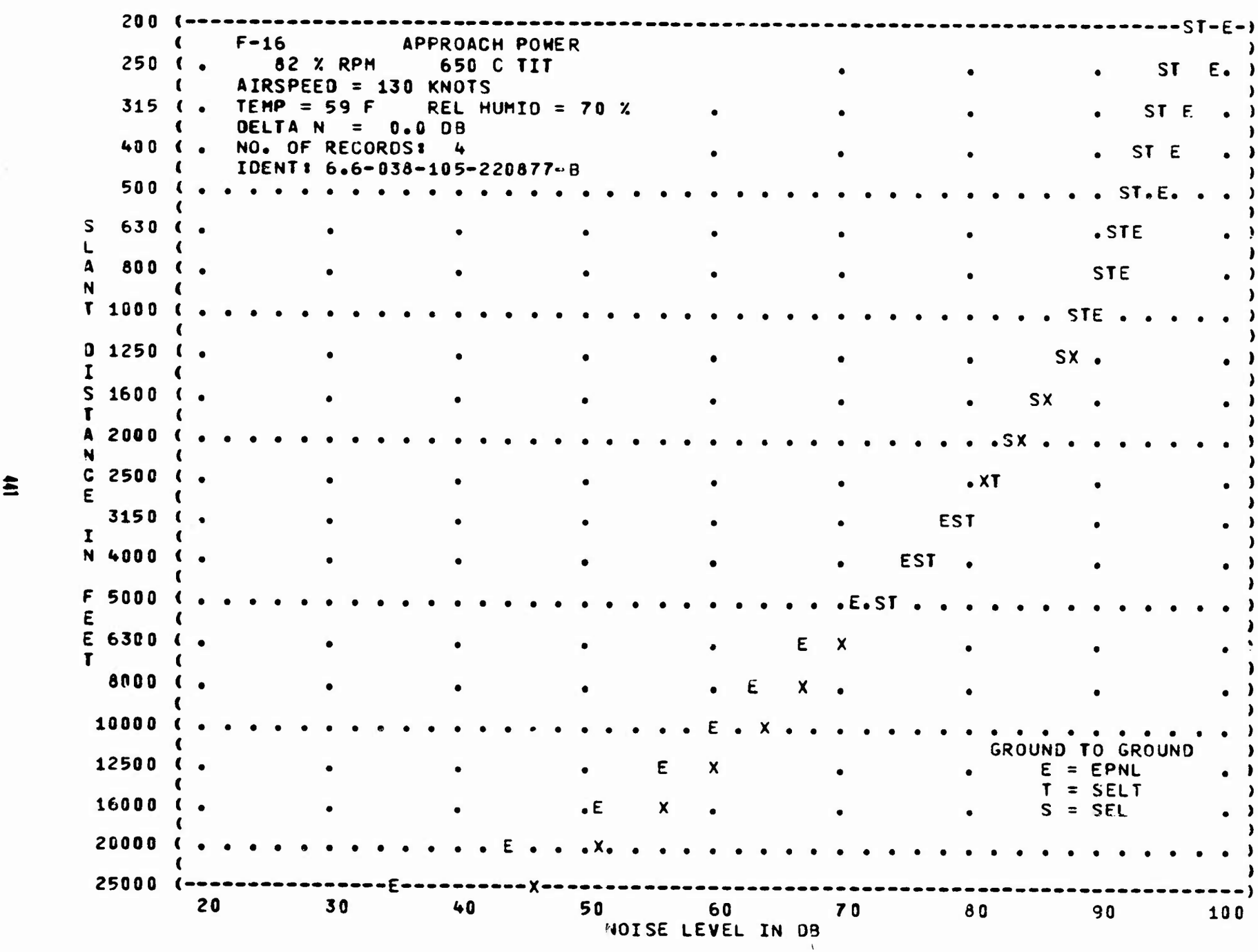
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

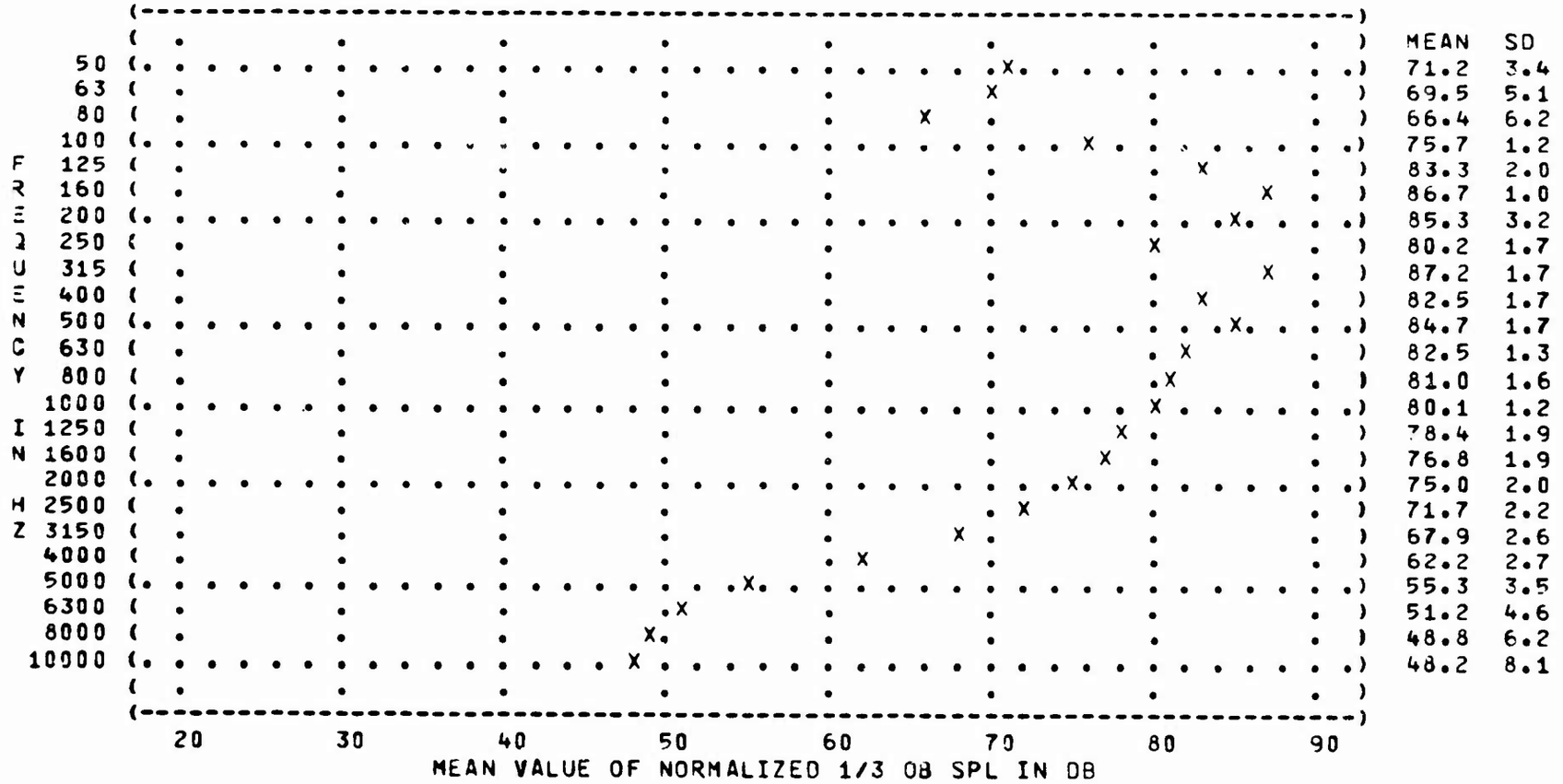
A/C CODE: 038
OPS CODE: 105
PROFILE VER: B
22 AUG 77
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	96.1	96.8	108.2	108.9	96.5	97.5	99.8
250	94.0	94.7	106.0	106.7	95.4	96.5	98.6
315	91.9	92.6	103.8	104.5	94.3	95.4	97.4
400	89.7	90.4	101.6	102.2	93.2	94.2	96.2
500	87.6	88.3	99.2	99.9	92.0	93.1	94.8
630	85.4	86.1	96.8	97.5	90.8	91.8	93.4
800	83.1	83.8	94.4	95.0	89.6	90.6	92.0
1000	80.8	81.4	91.7	92.4	88.2	89.2	90.3
1250	78.3	79.0	88.6	89.3	86.7	87.7	88.2
1600	75.7	76.4	85.3	86.0	85.1	86.1	85.9
2000	73.0	73.7	82.2	82.9	83.4	84.5	83.8
2500	70.0	70.7	78.8	79.5	81.5	82.5	81.4
3150	66.7	67.4	74.9	75.6	79.2	80.2	78.5
4000	63.0	63.6	70.4	71.0	76.5	77.3	74.8
5000	58.8	59.3	65.6	66.0	73.3	73.9	70.8
6300	54.4	54.6	60.6	60.9	69.8	70.2	66.6
8000	50.4	50.6	56.5	56.7	66.9	67.1	63.3
10000	46.1	46.1	52.0	52.0	63.6	63.6	59.5
12500	41.4	41.4	46.9	46.9	59.9	59.9	55.5
16000	36.3	36.3	41.0	41.0	55.7	55.7	50.5
20000	30.7	30.7	33.4	33.4	51.1	51.1	44.0
25000	24.6	24.6	23.4	23.4	46.1	46.1	35.0

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-16 APPROACH POWER
82 % RPM 650 C TIT
AIRSPEED = 130 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-038-105-220877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-16 APPROACH POWER
82 % RPM 650 C TIT
AIRSPEED = 130 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-038-105-220877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB



F-16 INTERMEDIATE POWER 85 % RPM 750 C TIT

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 73 %

IDENT: 6.6-038-106-220877

PNLT = 101.7 PNDB
PNL = 100.8 PNDB
ALT = 90.6 DBA
AL = 89.6 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-16

OPERATION: INTERMEDIATE POWER
85 % RPM 750 C TIT
AIRSPEED = 300 KNOTS

METEOROLOGY: TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 038
OPS CODE: 106
PROFILE VER: B
22 AUG 77
PAGE H4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	85	84	80	90	96	101	100	95	102	97	99	97	96	95	94	93	92	90	87	83	78	77	80	88
250	83	82	78	88	96	99	98	93	100	95	97	95	94	93	92	91	90	87	85	81	75	75	77	84
315	81	80	76	86	93	97	96	91	98	93	95	93	92	91	90	89	87	85	82	78	73	72	74	80
400	79	78	74	84	91	95	94	88	96	91	93	91	90	89	88	86	85	83	80	76	70	68	70	76
500	77	76	72	82	89	93	92	86	93	89	91	89	88	87	85	84	83	80	77	73	67	65	66	70
630	75	74	70	80	87	91	89	84	91	87	89	87	85	85	83	82	80	77	74	70	63	61	61	64
800	73	72	68	78	85	89	87	82	89	85	87	85	83	82	81	79	78	75	71	66	60	56	55	57
1000	71	70	66	76	83	87	85	80	87<	83	85	82	81	80	78	77	75	72	68	62	55	51	49	48
1250	69	68	64	74	81	85	83	78	85	80	82	80	79	78	76	74	72	68	64	58	51	45	41	38
1600	67	65	62	72	79	83	81	76	83	78	80	78	76	75	73	71	69	65	60	53	45	38	32	25
2000	65	63	60	70	77	80	79	74	81	76	78	75	74	72	70	68	65	61	55	47	39	30	21	10
2500	63	61	58	67	75	78	77	72	78	73	75	73	71	69	67	64	62	57	50	40	31	20	7	
3150	61	59	56	65	73	76	75	69	76	71	73	70	68	66	64	61	57	51	44	33	22	8		
4000	59	57	54	63	71	74	72	67	74	68	70	67	65	63	60	56	52	45	37	23	11			
5000	57	55	52	61	68	72	70	64	71	66	67	64	61	59	56	51	46	39	28	12				
6300	55	53	50	59	66	69	68	62	68	63	64	61	58	55	51	46	40	30	18					
8000	53	51	47	57	64	67	65	59	65	60	61	57	53	50	45	39	32	21	5					
10000	50	49	45	54	61	64	62	56	62	56	57	53	48	44	39	31	22	9						
12500	48	46	43	52	59	62	59	53	59	53	53	48	43	38	31	22	11							
16000	46	44	40	49	56	59	56	50	55	48	48	42	36	30	22	11								
20000	44	42	38	47	53	56	53	46	51	43	42	36	29	21	11									
25000	41	39	35	44	50	52	49	42	46	38	36	28	19	10										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-16

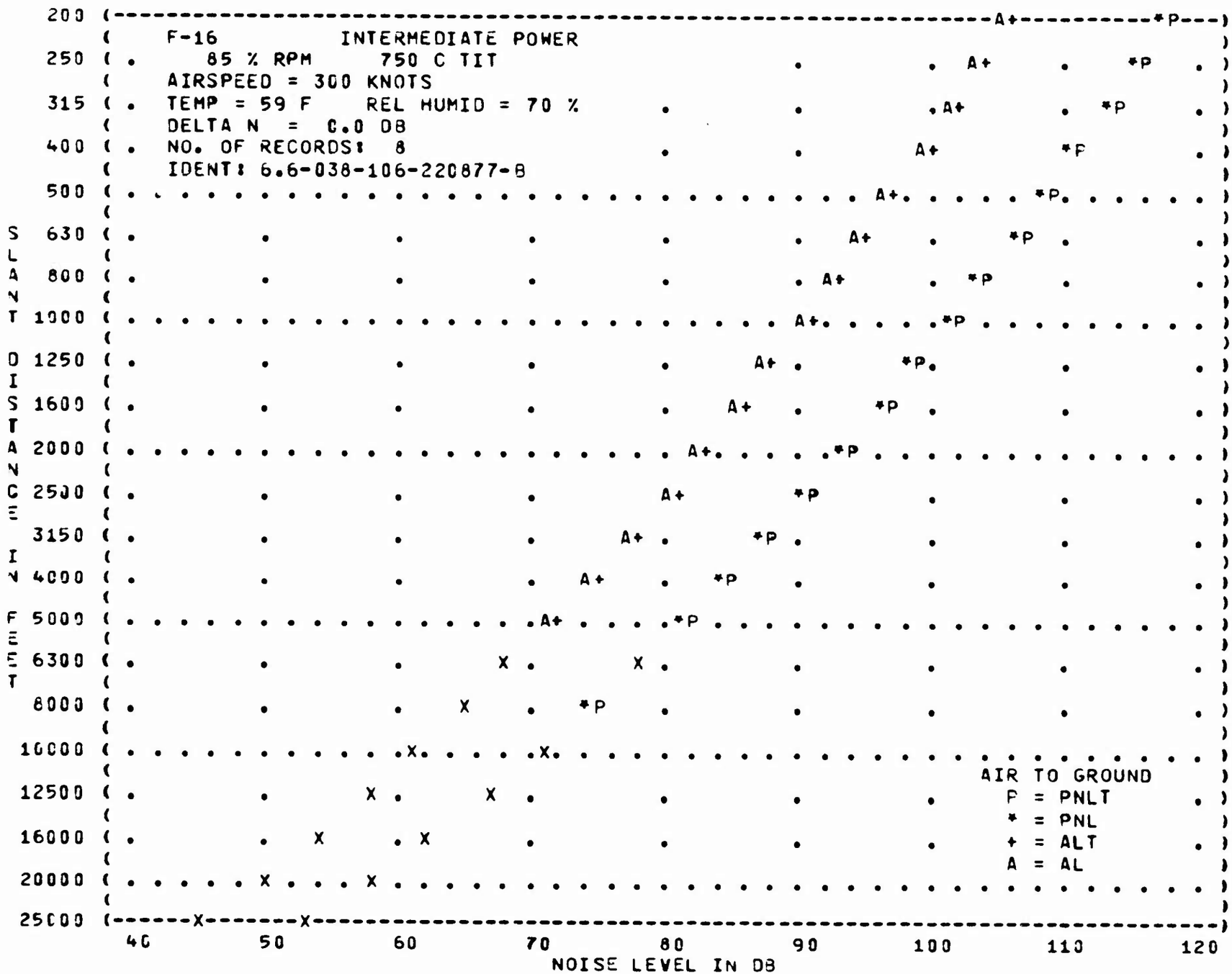
OPERATION:
INTERMEDIATE POWER
85 % RPM 750 C TIT
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 038
OPS CODE: 106
PROFILE VER: B
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PAGE I4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	105.0	106.0	117.0	117.9	104.9	105.9	107.5
250	102.9	103.9	114.8	115.7	103.8	104.8	106.4
315	100.7	101.7	112.6	113.5	102.7	103.7	105.1
400	98.6	99.6	110.3	111.3	101.5	102.5	103.9
500	96.4	97.4	108.0	109.0	100.4	101.3	102.6
630	94.2	95.2	105.7	106.6	99.1	100.1	101.2
800	91.9	92.9	103.2	104.2	97.9	98.9	99.8
1000	89.6	90.6	100.8	101.7	96.6	97.5	98.3
1250	87.2	88.2	98.2	99.2	95.2	96.2	96.8
1600	84.8	85.8	95.6	96.6	93.7	94.7	95.2
2000	82.3	83.2	92.9	93.9	92.2	93.2	93.5
2500	79.6	80.6	90.2	91.2	90.6	91.6	91.8
3150	76.9	77.9	87.3	88.3	88.9	89.8	89.9
4000	74.1	74.8	84.3	85.1	87.0	87.8	87.7
5000	71.1	71.7	81.2	81.8	85.0	85.6	85.4
6300	68.0	68.4	77.9	78.3	82.9	83.3	82.9
8000	64.7	64.9	74.4	74.6	80.6	80.8	80.2
10000	61.2	61.2	70.8	70.8	78.2	78.2	77.3
12500	57.6	57.6	66.8	66.8	75.5	75.5	74.4
16000	53.7	53.7	62.4	62.4	72.6	72.6	71.0
20000	49.5	49.5	57.7	57.7	69.5	69.5	67.3
25000	45.1	45.1	52.6	52.6	66.1	66.1	63.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-16 INTERMEDIATE POWER
85 % RPM 750 C TIT
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = C.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-038-106-220877-8
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

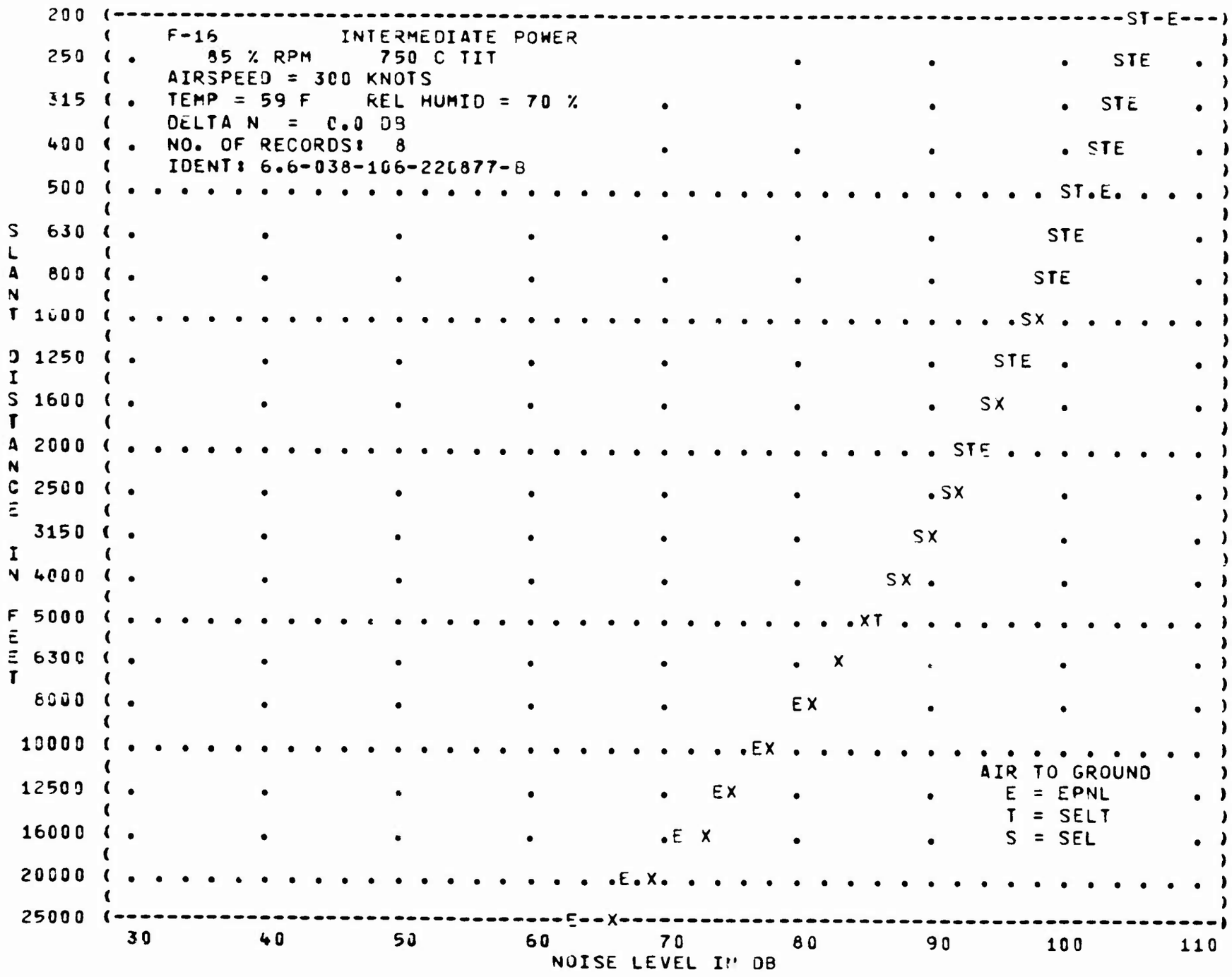

F-16 INTERMEDIATE POWER
85 % RPM 750 C TIT
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-038-106-220877-8
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-16

OPERATION: INTERMEDIATE POWER, 85 % RPM, 750 C TIT, AIRSPEED = 300 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 038
OPS CODE: 106
PROFILE VER: B
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PAGE L4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	80	79	75	85	93	96	95	90	97	92	94	92	91	90	89	88	87	85	82	78	73	72	75	83
250	78	77	73	83	91	94	93	88	95	90	92	90	89	88	87	86	85	82	80	76	70	70	72	79
315	76	75	71	81	88	92	91	86	93	88	90	88	87	86	85	84	82	80	77	73	68	67	69	75
400	74	73	69	79	86	90	88	83	91	86	88	86	85	84	83	81	80	78	75	71	65	63	65	71
500	72	71	67	77	84	87	86	81	88	84	86	84	83	82	80	79	78	75	72	68	62	60	61	65
630	70	69	65	75	82	85	83	79	86	82	84	82	80	80	78	77	75	72	69	65	58	56	56	59
800	68	67	63	72	79	82	81	76	84	80	82	80	78	77	76	74	73	70	66	61	55	51	50	52
1000	66	65	61	69	76	79	78	73	82<	78	80	77	76	75	73	72	70	67	63	57	50	46	44	43
1250	64	63	58	66	73	76	74	70	79	75	77	75	74	73	71	69	67	63	59	53	46	40	36	33
1600	62	59	55	63	69	72	71	66	76	73	75	73	71	70	68	66	64	60	55	48	40	33	27	20
2000	59	56	51	59	66	68	67	62	72	71	73	70	69	67	65	63	60	56	50	42	34	25	16	5
2500	55	52	47	55	61	64	63	58	68	67	70	68	66	64	62	59	57	52	45	35	26	15	2	
3150	51	47	42	50	56	59	58	53	64	63	67	65	63	61	59	56	52	46	39	28	17	3		
4000	47	42	37	44	51	53	52	47	58	58	63	62	60	58	55	51	47	40	32	18	6			
5000	42	38	32	40	46	49	47	42	52	52	59	57	56	54	51	46	41	34	23	7				
6300	37	33	28	35	41	44	42	37	46	47	54	53	52	50	46	41	35	25	13					
8000	35	31	25	33	39	41	39	34	43	44	51	49	47	45	40	34	27	16	0					
10000	32	29	23	30	36	39	37	31	40	40	47	45	42	39	34	26	17	4						
12500	30	26	21	28	34	36	34	28	37	37	43	40	37	33	26	17	6							
16000	28	24	18	25	31	33	31	25	33	32	38	34	30	25	17	6								
20000	26	22	16	23	28	30	27	21	29	27	32	28	23	16	6									
25000	23	19	13	20	25	27	24	17	24	22	26	20	13	5										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-16

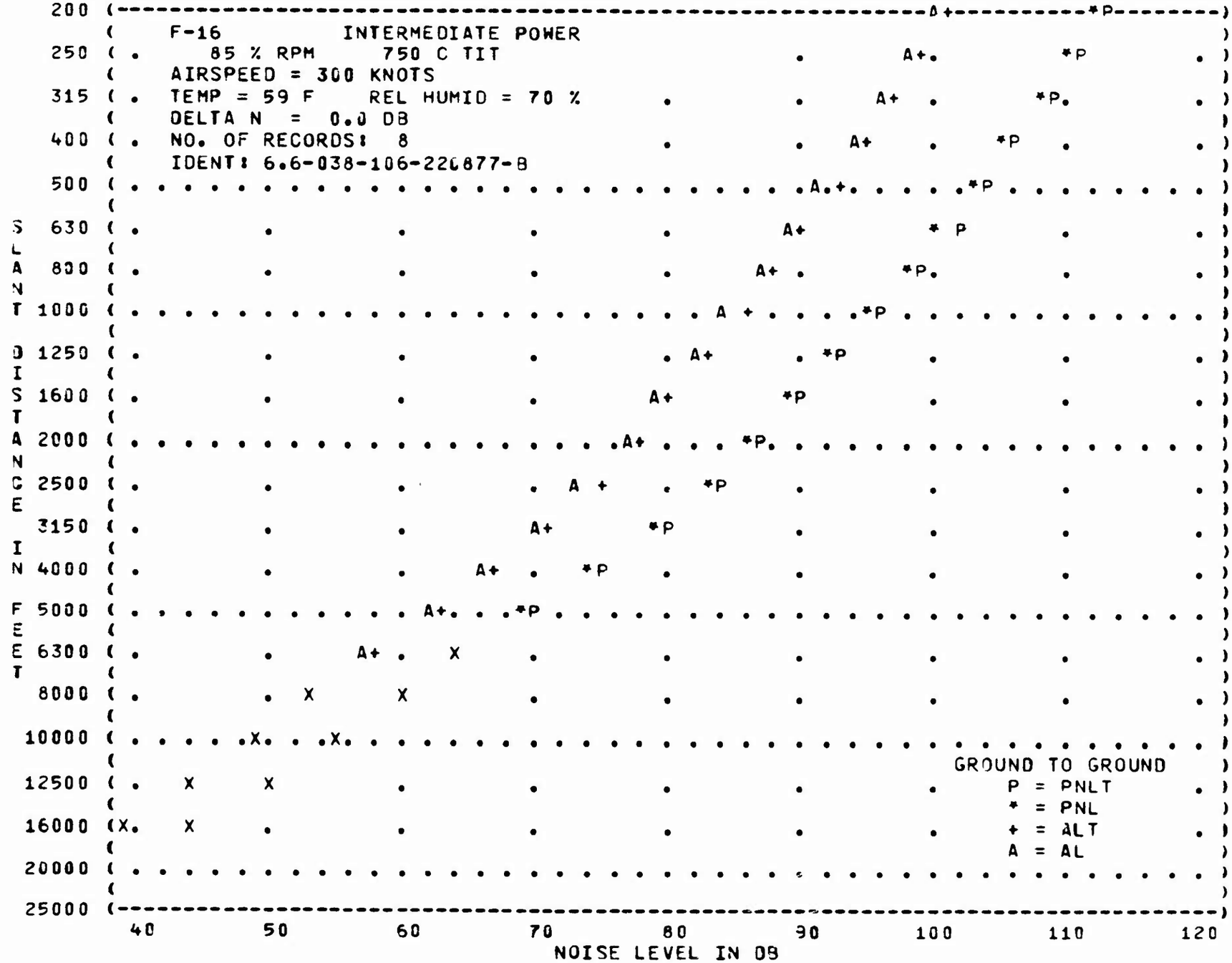
OPERATION:
INTERMEDIATE POWER
85 % RPM 750 C TIT
AIRSPEED = 300 KNOTS

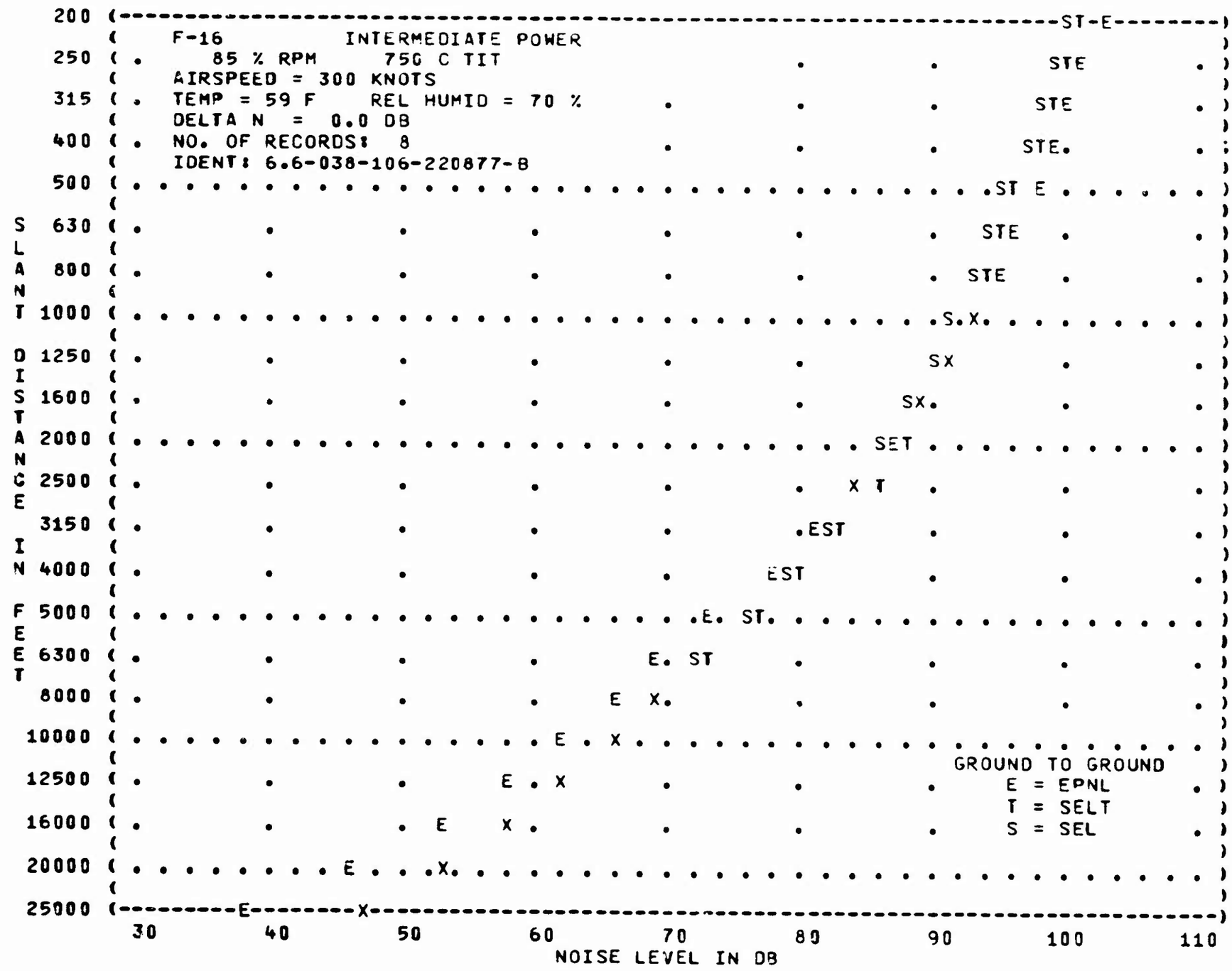
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

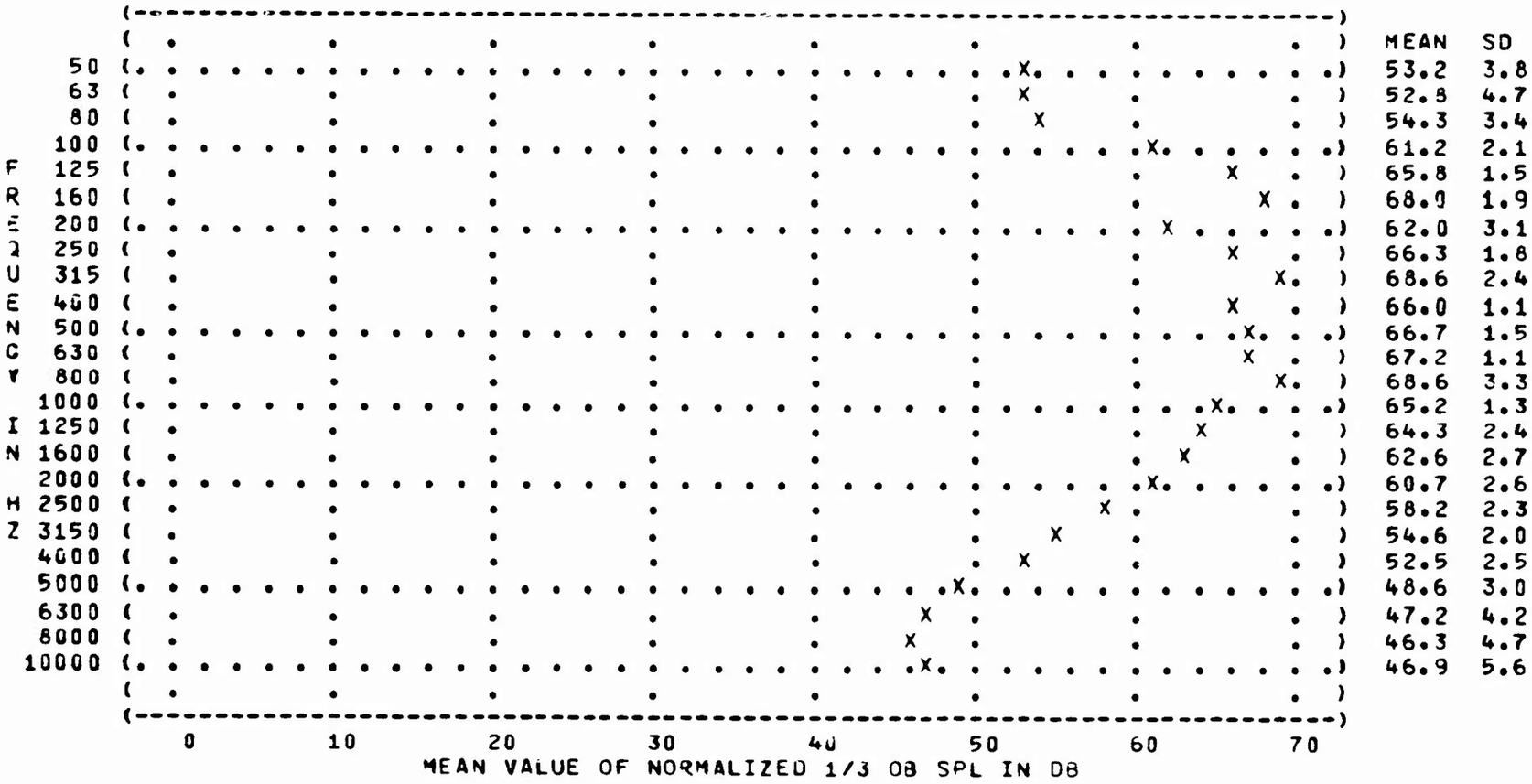
A/C CODE: 038
OPS CODE: 105
PROFILE VER: B
22 AUG 77
PAGE M4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	100.0	101.1	111.9	113.1	99.9	101.1	102.7
250	97.9	99.0	109.7	110.9	98.8	100.0	101.5
315	95.7	96.9	107.5	108.7	97.7	98.8	100.3
400	93.6	94.7	105.2	106.4	96.5	97.7	99.0
500	91.4	92.5	102.9	104.0	95.3	96.5	97.6
630	89.1	90.3	100.4	101.6	94.1	95.2	96.2
800	86.8	88.0	97.9	99.1	92.8	93.9	94.7
1000	84.4	85.6	95.2	96.4	91.4	92.5	93.0
1250	81.9	83.0	92.2	93.3	89.9	91.0	90.9
1600	79.3	80.4	89.1	90.2	88.2	89.4	88.8
2000	76.5	77.6	86.0	87.1	86.5	87.6	86.7
2500	73.5	74.6	82.5	83.7	84.4	85.6	84.3
3150	70.1	71.2	78.5	79.6	82.0	83.2	81.3
4000	66.3	67.2	74.0	74.9	79.3	80.2	77.5
5000	62.0	62.7	69.2	69.8	76.0	76.6	73.4
6300	57.4	57.8	64.0	64.5	72.3	72.8	69.1
8000	53.3	53.5	59.8	60.0	69.2	69.4	65.6
10000	48.8	48.8	55.1	55.1	65.7	65.7	61.7
12500	43.9	43.9	50.0	50.0	61.8	61.8	57.6
16000	38.6	38.6	44.1	44.1	57.5	57.5	52.7
20000	32.7	32.7	36.7	36.7	52.7	52.7	46.2
25000	26.4	26.4	27.0	27.0	47.3	47.3	37.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-16 INTERMEDIATE POWER
85 % RPM 750 C TIT
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-038-106-220877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-16 INTERMEDIATE POWER
85 % RPM 750 C TIT
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-038-106-220877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-16 TRAFFIC PATTERN 75 % RPM 530 C TIT

AIRSPEED = 200 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-038-113-220877

PNLT = 85.6 PNDB
PNL = 84.9 PNDB
ALT = 75.1 DBA
AL = 74.4 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-16

OPERATION:
TRAFFIC PATTERN
75 % RPM 530 C TIT
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
A/C CODE: 038
OPS CODE: 113
PROFILE VER: B
22 AUG 77
PAGE H5

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	67	67	68	75	80	82	76	81	83	80	81	82	83	80	80	79	77	75	73	73	70	71	75	83
250	65	65	66	73	78	80	74	79	81	78	79	80	81	78	78	76	75	73	71	70	67	69	72	79
315	63	63	64	71	76	78	72	77	79	76	77	78	79	76	76	74	73	71	68	68	65	66	69	75
400	61	61	62	69	74	76	70	74	77	74	75	76	77	74	73	72	71	69	66	65	62	63	65	71
500	59	59	60	67	72	74	68	72	75	72	73	74	75	72	71	70	68	66	63	62	59	60	62	66
630	57	57	58	65	70	72	66	70	73	70	71	72	73	70	69	67	66	64	61	59	56	56	57	61
800	55	55	56	63	68	70	64	68	71	68	69	69	71	67	67	65	63	61	58	56	52	52	52	54
1000	53	53	54	61	66	68<	62	66	69	66	67	67	69	65	64	63	61	58	55	53	49	47	46	47
1250	51	51	52	59	64	66	60	64	66	64	64	65	66	63	62	60	58	55	51	49	44	42	39	38
1600	49	49	50	57	62	64	58	62	64	62	62	63	64	60	59	57	55	52	47	44	39	36	31	27
2000	47	47	48	55	60	62	56	60	62	59	60	60	61	58	57	54	52	48	43	39	34	28	22	14
2500	45	45	46	53	58	60	54	58	60	57	58	58	59	55	54	51	48	44	38	33	27	20	10	
3150	43	43	44	51	55	57	51	55	58	55	55	55	56	52	50	47	44	40	33	26	19	10		
4000	41	41	42	49	53	55	49	53	55	52	52	52	53	49	47	43	40	34	26	18	10			
5000	39	38	40	47	51	53	47	51	53	50	50	50	50	45	43	39	34	28	19	8				
6300	37	36	38	44	49	51	44	48	50	47	47	46	46	41	39	34	28	21	10					
8000	35	34	36	42	47	48	42	46	47	44	44	43	42	37	33	28	21	12						
10000	33	32	33	40	44	46	39	43	45	41	40	39	38	32	28	21	13	2						
12500	30	30	31	38	42	43	37	40	41	37	36	35	33	26	21	13	3							
16000	28	27	29	35	39	41	34	37	38	33	32	30	27	19	13	3								
20000	26	25	26	33	36	38	31	33	34	29	27	24	20	11	3									
25000	24	23	24	30	33	34	27	30	30	24	21	17	12	2										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-16

OPERATION: TRAFFIC PATTERN, 75 % RPM 530 C TIT, AIRSPEED = 200 KNOTS

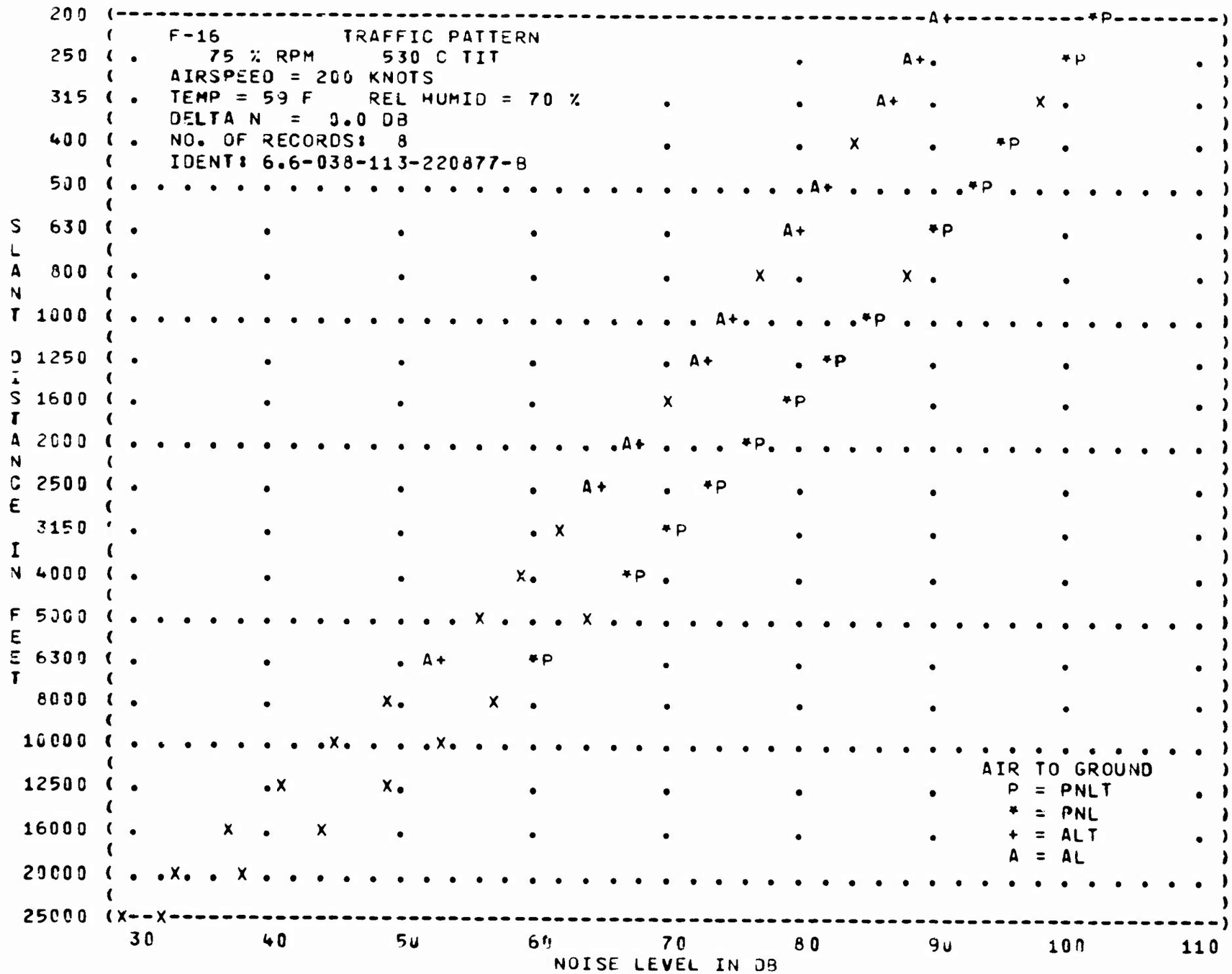
METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %

DELTA N = 0.0 DB

A/C CODE: 038
OPS CODE: 113
PROFILE VER: B
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PAGE I5

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	90.4	91.0	102.4	103.1	91.2	92.3	94.8
250	88.1	88.8	100.1	100.7	90.0	91.1	93.5
315	85.9	86.5	97.7	98.4	88.7	89.9	92.1
400	83.6	84.3	95.3	96.0	87.4	88.6	90.7
500	81.3	82.0	92.8	93.5	86.2	87.3	89.3
630	79.1	79.7	90.3	91.0	84.9	86.0	87.7
800	76.7	77.4	87.7	88.3	83.6	84.7	86.1
1000	74.4	75.1	84.9	85.6	82.2	83.4	84.3
1250	72.0	72.7	82.1	82.8	80.8	82.0	82.6
1600	69.5	70.2	79.3	80.0	79.4	80.5	80.7
2000	67.0	67.6	76.4	77.1	77.8	78.9	78.8
2500	64.3	65.0	73.4	74.1	76.1	77.3	76.8
3150	61.5	62.2	70.3	70.9	74.4	75.5	74.7
4000	58.6	59.2	67.1	67.7	72.5	73.4	72.3
5000	55.6	56.0	63.9	64.3	70.4	71.1	69.8
6300	52.3	52.6	60.4	60.7	68.2	68.6	67.2
8000	48.9	49.0	56.8	56.9	65.7	66.0	64.3
10000	45.3	45.3	52.9	52.9	63.1	63.1	61.1
12500	41.5	41.5	48.6	48.6	60.3	60.3	57.8
16000	37.4	37.4	43.7	43.7	57.3	57.3	53.9
20000	33.2	33.2	38.2	38.2	54.0	54.0	49.5
25000	28.8	28.8	32.2	32.2	50.6	50.6	44.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-16 TRAFFIC PATTERN
75 % RPM 530 C TIT
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-038-113-220877-8
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

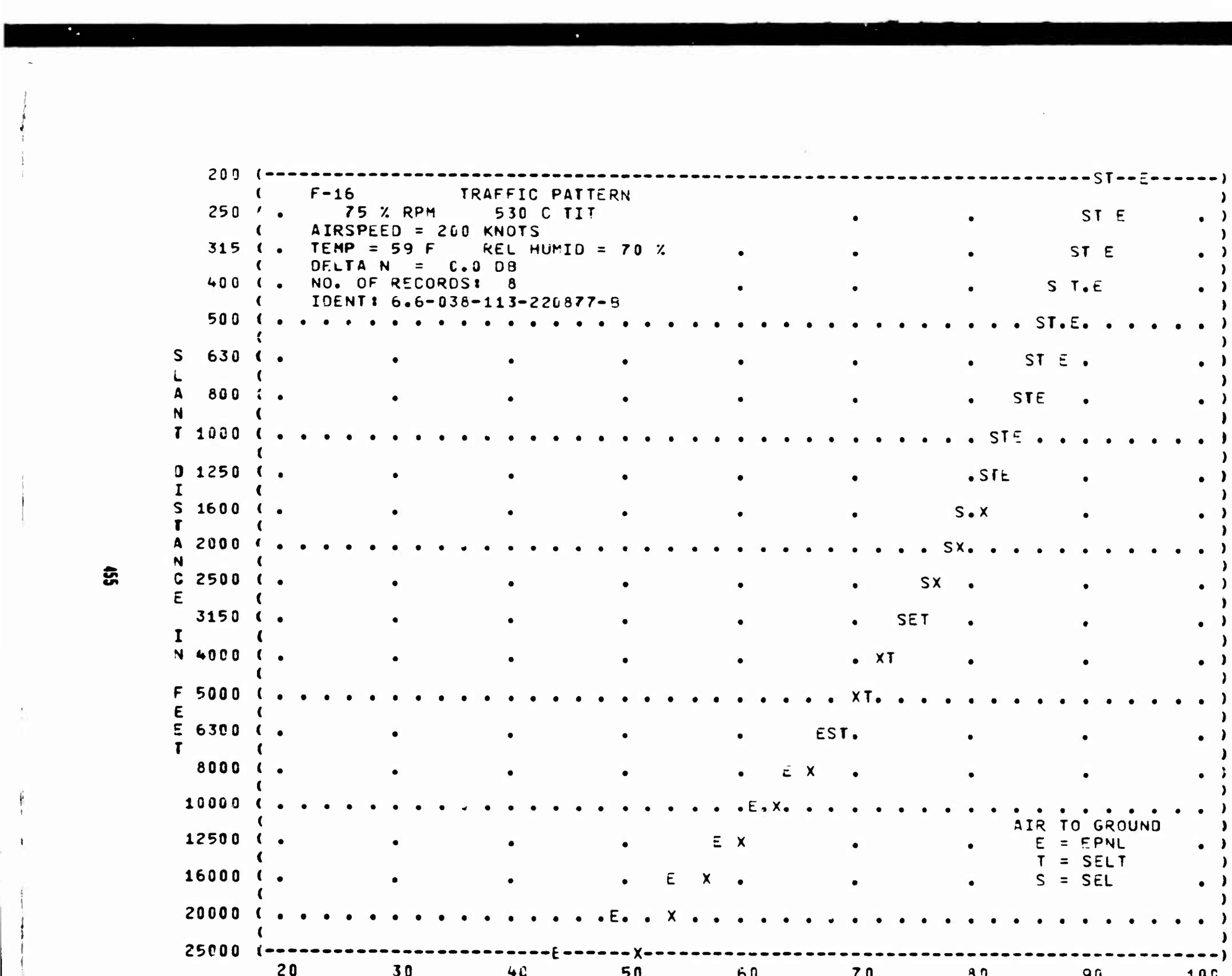

F-16 TRAFFIC PATTERN
75 % RPM 530 C TIT
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-038-113-220877-8
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-16

OPERATION:
TRAFFIC PATTERN
75 % RPM 530 C TIT
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 038
OPS CODE: 113
PROFILE VER: B
22 AUG 77
PAGE L5

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	62	62	63	70	75	77	71	76	78	75	76	77	78	75	75	74	72	70	68	68	65	66	70	73
250	60	60	61	68	73	75	69	74	76	73	74	75	76	73	73	71	70	68	66	65	62	64	67	74
315	58	58	59	66	71	73	67	72	74	71	72	73	74	71	71	69	68	66	63	63	60	61	64	70
400	56	56	57	64	69	71	65	69	72	69	70	71	72	69	68	67	66	64	61	60	57	58	60	66
500	54	54	55	62	67	68	63	67	70	67	68	69	70	67	66	65	63	61	58	57	54	55	57	61
630	52	52	53	60	64	66	60	65	68	65	66	67	68	65	64	62	61	59	56	54	51	51	52	56
800	50	50	51	58	61	63	57	62	66	63	64	64	66	62	62	60	58	56	53	51	47	47	47	49
1000	48	48	49	55	59	60<	54	59	63	61	62	62	64	60	59	58	56	53	50	48	44	42	41	42
1250	46	46	46	52	55	57	51	56	60	59	59	60	61	58	57	55	53	50	46	44	39	37	34	33
1600	44	43	43	43	52	54	48	52	57	57	57	58	59	55	54	52	50	47	42	39	34	31	26	22
2000	41	39	39	45	48	50	44	48	54	54	55	55	56	53	52	49	47	43	38	34	29	23	17	9
2500	37	35	35	40	44	45	39	44	50	51	52	53	54	50	49	46	43	39	33	28	22	15	5	
3150	34	31	30	35	39	41	34	39	45	47	49	50	51	47	45	42	39	35	28	21	14	5		
4000	29	26	25	30	33	35	29	33	40	42	45	47	48	44	42	38	35	29	21	13	5			
5000	24	21	20	25	29	30	24	28	34	36	41	43	44	40	38	34	29	23	14	3				
6300	19	16	16	20	24	25	19	23	28	31	37	38	40	36	34	29	23	16	5					
8000	17	14	14	18	22	23	17	21	25	28	34	35	36	32	28	23	16	7						
10000	15	12	11	16	19	20	14	18	23	25	30	31	32	27	23	16	8							
12500	12	10	9	14	17	18	11	15	19	21	26	27	27	21	16	8								
16000	10	7	7	11	14	15	8	12	16	17	22	22	21	14	8									
20000	8	5	4	9	11	12	5	8	12	13	17	16	14	6										
25000	6	3	2	6	8	9	2	5	8	8	11	9	6											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-16

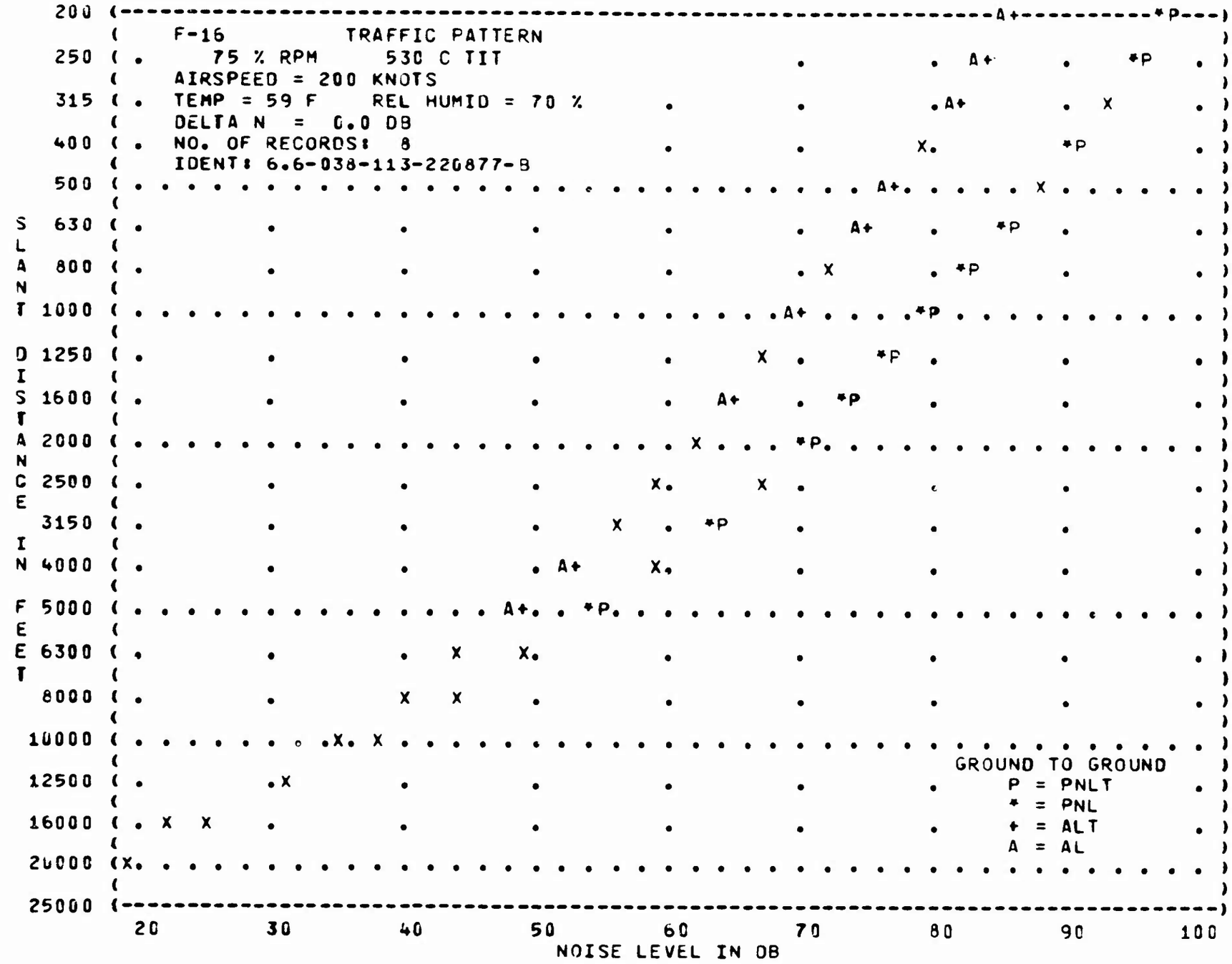
OPERATION:
TRAFFIC PATTERN
75 % RPM 530 C TIT
AIRSPEED = 200 KNOTS

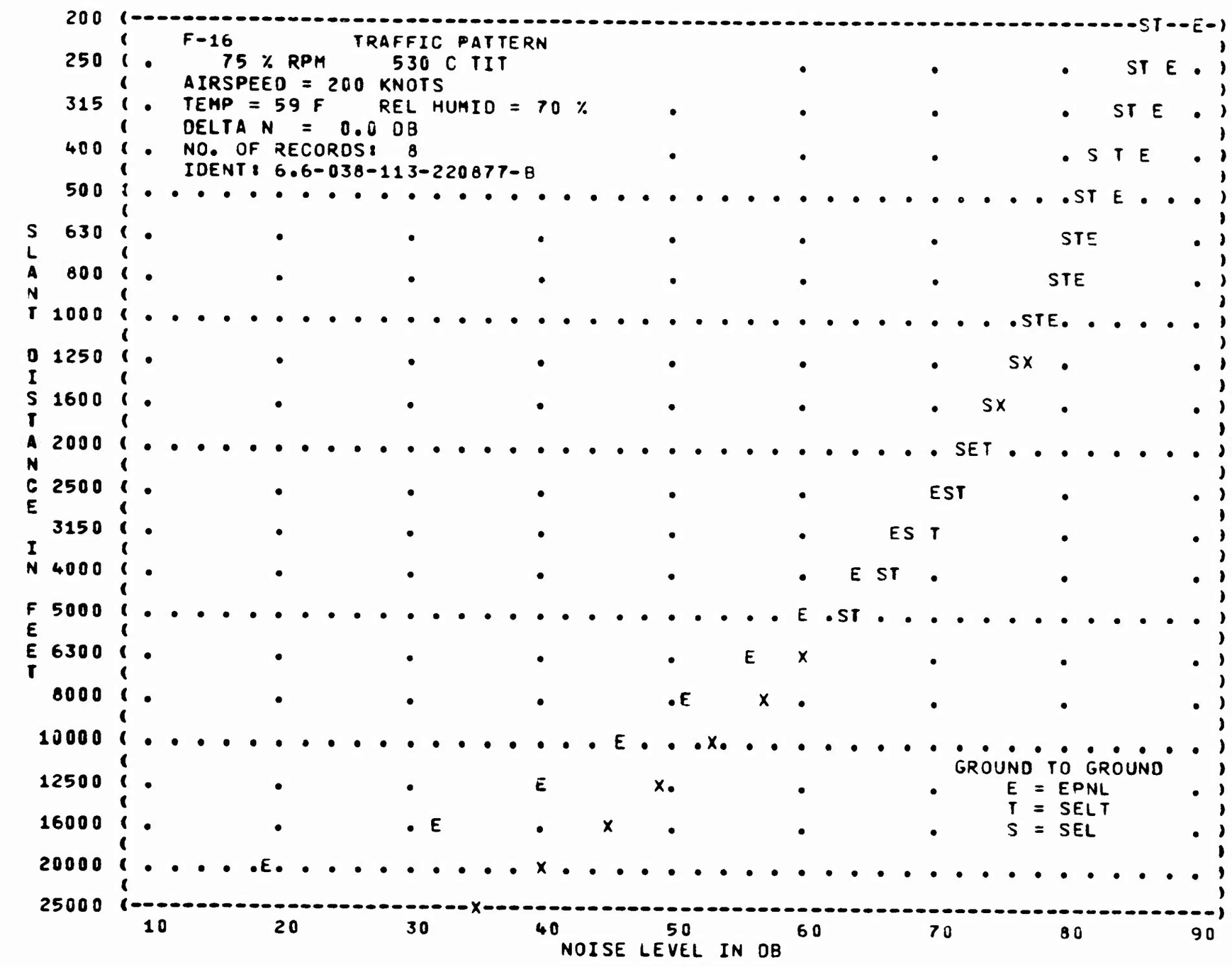
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 038
OPS CODE: 113
PROFILE VER: 8
22 AUG 77
PAGE M5

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	85.4	86.0	97.3	98.0	86.2	87.3	89.7
250	83.1	83.8	95.0	95.6	85.0	86.1	88.4
315	80.9	81.5	92.6	93.3	83.7	84.8	87.0
400	78.6	79.2	90.2	90.9	82.4	83.5	85.6
500	76.3	77.0	87.7	88.3	81.2	82.3	84.1
630	74.0	74.7	85.1	85.7	79.9	81.0	82.4
800	71.7	72.3	82.4	83.0	78.5	79.6	80.7
1000	69.3	69.9	79.4	80.1	77.1	78.2	78.8
1250	66.8	67.5	76.5	77.1	75.7	76.8	76.9
1600	64.3	64.9	73.4	74.1	74.1	75.2	74.8
2000	61.6	62.2	70.2	70.8	72.4	73.5	72.6
2500	58.7	59.3	66.7	67.4	70.5	71.7	70.1
3150	55.6	56.2	63.0	63.6	68.4	69.5	67.4
4000	52.1	52.6	58.9	59.4	66.0	66.8	64.0
5000	48.2	48.6	54.1	54.5	63.0	63.7	60.0
6300	43.9	44.1	49.0	49.2	59.7	60.2	55.7
8000	39.9	40.0	43.7	43.8	56.7	56.9	51.2
10000	35.5	35.5	37.8	37.8	53.3	53.3	46.0
12500	30.6	30.6	31.2	31.2	49.5	49.5	40.4
16000	25.3	25.3	21.5	21.5	45.1	45.1	31.8
20000	19.4	19.4	8.2	8.2	40.3	40.3	19.4
25000	13.0	13.0			34.8	34.8	7.0

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-16 TRAFFIC PATTERN
75 % RPM 530 C TIT
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-038-113-220877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-16 TRAFFIC PATTERN
75 % RPM 530 C TIT
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-038-113-220877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
10
20
30
40
50
60
70
80
90
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL

USAF F-16 AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

F-16 AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 75-038-001
AIRCRAFT CODE: 038
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
62% RPM, 483C TIT	461-466
80% RPM, 620C TIT	467-472
INTERMEDIATE (MIL) 90% RPM, 934C TIT	473-478
FULL AUGMENTATION, A/B 89% RPM, 950C TIT	479-484

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

13 APR 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 01
AIRCRAFT CODE 038
OPERATION CODE 01013
PROFILE VERSION A
13 APR 76
PAGE C1

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
IDLE, 62% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	68	72<	71<	68	70<	71	67<	67<	68<	68<	69<	68	69	70	69	73	67<	67<	48<
63	69<	72<	71<	67<	70<	71<	67<	67<	68<	68<	69<	69<	69<	71<	70<	71<	67<	67<	48<
80	71<	72<	71<	67<	70<	70<	67<	67<	68<	68<	69<	70<	70<	71<	70<	68	67	67<	48<
100	73	72	71	67	70	70	67	67	68	68	69	70	71	71	71	74	73	67	48<
125	73	72	71	71	70	69	68	71	70	69	70	72	72	72	72	73	73	68	48<
160	75	74	73	71	71	71	70	69	69	67	68	68	69	69	68	69	69	66<	48<
200	74	72	71	71	71	70	67	67	67	65	68	70	72	73	71	68	71	63	48<
250	73	72	72	72	70	68	66	67	66	65	68	70	72	73	74	70	70	64	48<
315	75	73	74	72	70	68	66	65	64	62	65	67	69	70	70	68	66	61	48<
400	76	74	75	73	71	69	65	64	65	62	65	67	69	70	68	67	63	60	48<
500	76	76	76	74	72	69	66	64	64	62	64	65	69	69	69	65	64	60	48<
630	78	77	79	76	77	73	70	70	67	65	65	67	72	72	71	67	69	66	48<
800	79	79	80	77	77	74	70	64	64	62	60	64	67	69	66	64	63	59	48<
1000	77	77	80	77	77	75	72	65	64	62	60	62	64	66	64	61	60	60	48<
1250	79	78	81	78	78	76	72	65	64	62	60	62	64	64	64	61	60	63	48<
1600	77	77	81	76	76	74	71	64	63	61	58	59	60	61	63	63	62	63	48
2000	82	79	84	80	79	77	75	69	67	61	62	61	61	63	66	66	64	64	51<
2500	89	85	90	86	83	80	78	73	70	64	66	64	66	67	69	68	67	66	53
3150	84	82	83	80	80	77	74	71	65	62	63	66	68	69	70	68	66	65	49
4000	87	85	87	84	84	82	79	75	70	66	68	72	76	76	73	71	67	65	52
5000	80	77	78	76	77	75	71	67	64	59	59	63	66	67	67	66	63	60	44
6300	78	76	78	74	75	73	69	65	62	56	56	59	62	64	65	65	60	58	36<
8000	74	72	74	70	70	69	66	61	58	54	55	58	61	62	63	64	58	57	28<
10000	68	66	68	64	64	63	60	55	54	50	54	58	61	61	61	61	54	52	20<
OVERALL	94	92	95	91	90	88	86	82	80	78	80	81	83	84	83	82	81	78	62

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
IDLE, 62% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 01
AIRCRAFT CODE 038
OPERATION CODE 01013
PROFILE VERSION A
13 APR 76
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	110.7	108.6	111.1	107.6	107.4	105.3	102.3	98.6	94.9	91.5	92.7	95.5	98.6	99.2	98.0	96.2	93.7	91.5	76.2
250	108.5	106.2	108.9	105.3	105.0	102.9	100.0	96.2	92.0	89.2	90.3	93.2	96.2	96.9	95.7	93.9	91.3	89.1	73.9
315	106.1	103.8	106.6	103.0	102.6	100.5	97.5	93.8	90.2	86.7	87.9	90.8	93.8	94.5	93.2	91.4	88.9	86.8	71.6
400	103.7	101.3	104.2	100.6	100.1	98.0	95.0	91.3	87.7	84.2	85.4	88.2	91.2	91.9	90.7	88.9	86.4	84.3	69.2
500	101.2	98.6	101.7	98.1	97.4	95.3	92.3	88.6	85.0	81.6	82.7	85.6	88.6	89.3	88.1	86.2	83.8	81.8	66.7
630	98.6	95.9	99.1	95.5	94.6	92.5	89.5	85.8	82.4	78.8	79.9	82.7	85.7	86.4	85.2	83.4	81.0	79.2	64.0
800	95.8	93.2	96.3	92.7	91.6	89.4	86.5	82.7	79.6	75.8	76.9	79.7	82.7	83.4	82.2	80.3	78.1	76.4	61.2
1000	92.9	90.2	93.4	89.8	88.4	86.2	83.4	79.4	76.7	72.6	73.7	76.4	79.4	80.1	78.9	77.1	75.2	73.4	58.2
1250	89.7	87.1	90.3	86.7	85.2	82.8	80.2	76.1	73.5	69.3	70.3	72.9	75.8	76.5	75.4	73.5	72.0	70.2	54.8
1600	86.3	83.6	86.9	83.3	81.8	79.4	76.8	72.6	70.0	65.8	66.8	68.9	71.9	72.6	71.5	70.1	68.5	66.6	51.1
2000	82.6	79.9	83.2	79.6	78.0	75.6	73.0	68.7	66.2	62.0	63.0	64.6	67.6	68.3	67.4	66.1	64.6	62.8	46.9
2500	78.4	75.8	79.0	75.4	73.9	71.4	68.8	64.5	61.9	57.7	58.6	59.6	63.0	63.4	63.2	61.8	60.3	58.4	42.0
3150	73.8	71.2	74.5	70.9	69.3	66.8	64.1	59.7	57.1	52.7	53.6	55.2	58.9	59.2	58.9	56.8	56.1	53.6	36.0
4000	68.6	66.0	69.3	65.7	64.1	61.5	58.8	54.2	51.5	46.9	47.6	50.0	54.1	54.3	54.0	51.2	51.2	47.9	28.9
5000	62.7	60.2	63.5	59.8	58.3	55.6	52.6	47.6	44.5	40.8	41.3	44.1	48.6	48.8	48.4	44.6	45.1	42.0	14.3
6300	56.0	53.6	56.9	53.2	51.8	49.1	45.4	40.9	37.7	34.2	34.1	37.3	42.3	42.5	42.2	38.2	38.7	35.5	
8000	48.7	48.0	50.5	46.8	46.3	42.6	38.5	35.1	32.1	27.3	26.7	30.4	36.5	37.1	36.7	31.8	32.7	29.2	
10000	42.4	41.9	44.3	40.6	40.2	36.1	32.0	27.2	23.1	17.4	18.6	23.2	30.4	30.4	29.3	23.0	25.0	18.8	
12500	35.5	34.3	37.2	32.8	33.2	27.6	21.5	17.0	12.5	6.9	6.9	13.5	23.9	23.4	22.1	13.2	15.6	10.0	
16000	26.5	26.1	28.8	23.3	24.4	17.0	7.3	8.2	1.9			3.8	13.6	12.6	11.8	3.5	6.8	1.3	
20000	14.6	15.0	16.3	10.1	10.7	6.3							3.2	1.8	1.4				
25000	2.8	3.8	3.9																

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
IDLE, 62% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 01
AIRCRAFT CODE 038
OPERATION CODE 01013
PROFILE VERSION A
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PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	112.6	110.6	113.4	109.8	109.5	107.3	104.6	100.8	96.9	93.6	95.0	98.2	101.5	102.0	99.8	97.4	95.7	93.6	78.1
250	110.4	108.2	111.2	107.6	107.2	104.9	102.2	98.5	94.5	91.2	92.6	95.8	99.1	99.7	97.4	95.6	93.4	91.3	75.8
315	108.1	105.8	108.8	105.3	104.7	102.5	99.8	96.1	92.1	88.8	90.2	93.4	96.7	97.3	95.0	92.6	91.0	88.9	73.5
400	105.7	103.3	106.5	102.9	102.2	100.0	97.3	93.5	89.6	86.3	87.7	90.9	94.2	94.7	92.5	90.1	88.4	86.5	71.0
500	103.2	100.6	104.0	100.4	99.6	97.3	94.6	90.8	87.0	83.6	85.0	88.2	91.5	92.1	89.8	87.4	85.8	83.9	68.5
630	100.5	97.9	101.4	97.7	96.7	94.5	91.8	88.0	84.3	80.9	82.2	85.3	88.7	89.2	87.0	84.5	83.0	81.3	65.9
800	97.8	95.1	98.6	95.0	93.7	91.5	88.7	85.0	81.6	77.8	79.2	82.3	85.6	86.2	83.9	81.5	80.2	78.5	63.0
1000	94.8	92.2	95.7	92.1	90.5	88.2	85.7	81.7	78.6	74.6	76.0	79.1	82.3	82.9	80.7	78.2	77.2	75.5	60.0
1250	91.7	89.0	92.5	88.9	87.3	84.8	82.5	78.3	75.4	71.4	72.6	75.5	78.8	79.4	77.1	74.7	74.0	72.3	56.7
1600	88.2	85.6	89.1	85.5	83.9	81.4	79.1	74.9	72.0	67.9	69.1	71.6	74.8	75.4	73.3	71.2	70.5	68.8	52.9
2000	84.5	81.9	85.4	81.8	80.2	77.6	75.2	71.0	68.1	64.0	65.3	67.2	70.5	71.1	69.2	67.3	66.7	64.9	48.8
2500	80.4	77.8	81.3	77.7	76.0	73.4	71.1	66.7	63.9	59.7	60.9	62.2	65.9	66.2	64.9	63.0	62.3	60.6	43.8
3150	75.7	73.2	76.8	73.1	71.4	68.8	66.4	62.0	59.1	54.8	55.9	57.8	61.8	62.0	60.6	58.0	58.1	55.8	37.9
4000	70.1	67.5	71.1	67.5	65.8	63.1	60.7	56.4	53.1	48.6	49.5	52.1	56.4	56.6	55.4	52.1	52.8	49.6	30.4
5000	63.8	61.4	64.9	61.2	59.5	56.8	54.0	48.9	45.7	42.0	42.7	45.6	50.4	50.5	49.4	45.4	46.3	43.3	15.4
6300	56.7	54.3	57.8	54.1	52.6	49.9	46.3	41.8	38.5	35.1	35.0	38.4	43.5	43.6	42.9	38.6	39.5	36.3	.5
8000	49.1	48.4	50.9	47.2	46.7	43.0	39.0	35.5	32.4	27.7	27.2	30.9	37.0	37.6	37.0	32.1	33.1	29.7	
10000	42.4	41.9	44.3	40.6	40.2	36.1	32.0	27.2	23.1	17.4	18.6	23.2	30.4	30.4	29.3	23.0	25.0	18.8	
12500	35.5	34.3	37.2	32.8	33.2	27.6	21.5	17.0	12.5	6.9	6.9	13.5	23.9	23.4	22.1	13.2	15.6	10.0	
16000	26.5	26.1	28.8	23.3	24.4	17.0	7.3	8.2	1.9			3.8	13.6	12.6	11.8	3.5	6.8	1.3	
20000	14.6	15.0	16.3	10.1	10.7	6.3							3.2	1.8	1.4				
25000	2.8	3.8	3.9																

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
IDLE, 62% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 9.2
TEST 75-036-001
RUN 01
AIRCRAFT CODE 038
OPERATION CODE 01013
PROFILE VERSION A
13 APR 76
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	96.7	94.3	97.4	93.8	93.0	90.7	87.8	83.4	79.9	76.1	76.8	79.2	82.4	83.1	[illegible]	80.4	78.5	77.0	62.7
250	94.5	92.0	95.1	91.5	90.7	88.4	85.6	81.2	77.7	73.9	74.6	77.0	80.2	80.8	[illegible]	78.1	76.3	74.8	60.5
315	92.2	89.7	92.8	89.2	88.4	86.1	83.2	78.8	75.4	71.7	72.3	74.6	77.8	78.5	[illegible]	75.3	74.0	72.5	58.3
400	89.7	87.3	90.4	86.8	86.0	83.7	80.8	76.4	73.0	69.3	70.0	72.2	75.4	76.1	75.[illegible]	[illegible]4	71.7	70.2	56.0
500	87.3	84.8	88.0	84.3	83.5	81.2	78.3	73.9	70.6	66.9	67.5	69.8	72.9	73.6	72.[illegible]	[illegible].9	69.3	67.8	53.6
630	84.7	82.2	85.4	81.8	80.9	78.6	75.7	71.3	68.1	64.5	65.0	67.2	70.3	71.0	70.2	68.3	66.8	65.3	51.1
800	81.9	79.5	82.7	79.1	78.2	75.8	73.0	68.5	65.5	61.9	62.4	64.5	67.6	68.3	67.6	65.6	64.3	62.7	48.6
1000	79.0	76.7	79.9	76.3	75.4	73.0	70.2	65.6	62.7	59.3	59.7	61.7	64.8	65.5	64.8	62.8	61.6	60.0	45.9
1250	76.0	73.7	77.0	73.3	72.4	70.0	67.2	62.6	59.9	56.5	56.9	58.8	61.9	62.5	61.9	59.8	58.8	57.3	43.1
1600	72.8	70.6	73.8	70.2	69.3	66.9	64.0	59.4	56.3	53.6	53.9	55.8	58.9	59.6	59.0	56.8	55.9	54.3	40.2
2000	69.3	67.3	70.5	66.9	66.0	63.6	60.7	56.1	53.0	50.7	50.9	52.7	55.9	56.5	55.9	53.6	52.9	51.3	37.1
2500	65.6	63.9	67.0	63.4	62.6	60.1	57.2	52.6	50.5	47.5	47.6	49.4	52.8	53.4	52.7	50.2	49.8	48.1	33.9
3150	61.7	60.3	63.2	59.7	59.1	56.5	53.5	49.0	47.0	44.2	44.1	46.0	49.5	50.0	49.4	46.6	46.5	44.7	30.4
4000	57.5	56.4	59.1	55.7	55.2	52.7	49.0	45.0	43.2	40.5	40.2	42.2	45.8	46.4	45.6	42.7	42.7	40.9	26.5
5000	52.9	52.1	54.7	51.3	51.0	48.4	45.3	40.6	38.9	36.3	35.9	38.0	41.7	42.3	41.4	38.4	38.5	36.7	22.3
6300	48.1	47.5	50.0	46.7	46.5	43.9	40.6	36.0	34.4	31.9	31.3	33.6	37.3	37.9	36.9	33.8	34.0	32.1	17.8
8000	43.4	43.1	45.3	42.1	42.0	39.3	36.0	31.8	30.2	27.8	27.4	29.7	33.6	34.1	33.1	29.8	30.2	27.9	13.4
10000	38.5	38.4	40.3	37.3	37.3	34.4	31.1	27.3	25.7	23.4	23.2	25.6	29.5	30.0	29.0	25.6	26.0	23.4	8.8
12500	33.4	33.3	35.0	32.1	32.1	29.0	25.7	22.5	20.9	18.6	18.8	21.1	25.0	25.4	24.5	21.1	21.5	18.6	3.9
16000	27.8	27.7	29.2	26.4	26.4	23.2	19.9	17.3	15.6	13.4	13.9	16.2	20.1	20.4	19.5	16.2	16.5	13.4	
20000	21.7	21.6	22.8	20.1	20.1	16.7	13.5	11.6	10.0	7.7	8.7	10.8	14.6	14.9	14.1	10.9	11.1	7.7	
25000	15.0	14.9	15.8	13.3	13.2	9.8	6.7	5.3	3.9	1.8	[illegible].1	5.1	8.5	8.8	8.2	5.3	5.2	1.6	

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
IDLE, 62% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-03R-001
RUN 01
AIRCRAFT CODE 038
OPERATION CODE 01013
PROFILE VERSION A
13 APR 76
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	98.7	96.3	99.6	96.0	95.1	92.7	91.1	85.7	81.9	78.2	79.1	81.8	85.4	85.9	84.0	81.6	80.5	79.1	64.6
250	96.4	94.0	97.4	93.8	92.8	90.4	87.9	83.4	79.6	76.0	76.9	79.6	83.1	83.6	81.7	79.3	78.3	76.9	62.4
315	94.1	91.7	95.1	91.4	90.5	88.1	85.5	81.1	77.3	73.7	74.6	77.3	80.7	81.3	79.4	77.0	76.1	74.6	60.1
400	91.7	89.3	92.7	89.1	88.1	85.7	83.1	78.6	75.0	71.4	72.3	74.9	78.3	78.9	77.0	74.6	73.7	72.3	57.8
500	89.2	86.8	90.3	86.6	85.6	83.2	80.6	76.1	72.5	69.0	69.8	72.4	75.8	76.4	74.5	72.1	71.3	69.9	55.4
630	86.6	84.2	87.7	84.0	83.0	80.6	78.0	73.5	70.0	66.5	67.3	69.8	73.2	73.8	72.0	69.5	68.9	67.4	53.0
800	83.8	81.5	85.0	81.3	80.3	77.9	75.3	70.8	67.4	64.0	64.7	67.1	70.5	71.1	69.3	66.8	66.3	64.8	50.4
1000	81.0	78.7	82.2	78.5	77.5	75.0	72.4	67.9	64.7	61.3	62.0	64.3	67.7	68.3	66.6	64.0	63.6	62.2	47.7
1250	77.9	75.7	79.2	75.5	74.5	72.0	69.4	64.8	61.8	58.5	59.2	61.4	64.8	65.4	63.7	61.0	60.8	59.4	45.0
1600	74.7	72.6	76.1	72.4	71.4	68.9	66.3	61.6	58.9	55.7	56.2	58.4	61.9	62.4	60.7	58.0	57.9	56.5	42.0
2000	71.2	69.3	72.8	69.1	68.1	65.6	63.0	58.3	55.8	52.7	53.2	55.3	58.9	59.4	57.7	54.8	55.0	53.4	39.0
2500	67.6	65.9	69.2	65.6	64.7	62.2	59.5	54.9	52.5	49.5	49.9	52.0	55.7	56.2	54.5	51.4	51.8	50.2	35.7
3150	63.6	62.2	65.5	61.9	61.2	58.5	55.8	51.2	49.0	46.2	46.4	48.6	52.4	52.9	51.1	47.8	48.5	46.8	32.2
4000	59.0	57.9	61.0	57.5	56.9	54.3	51.4	46.8	44.8	42.1	42.0	44.3	48.2	48.6	47.0	43.7	44.4	42.6	28.0
5000	54.1	53.3	56.1	52.7	52.3	49.7	46.6	42.0	40.1	37.6	37.3	39.6	43.5	44.0	42.4	39.1	39.7	37.9	23.4
6300	48.8	48.3	50.9	47.6	47.3	44.7	41.5	36.9	35.2	32.7	32.3	34.6	38.5	39.1	37.6	34.2	34.8	33.0	18.5
8000	43.8	43.5	45.7	42.6	42.5	39.7	36.5	32.2	30.6	28.2	27.9	30.2	34.2	34.7	33.4	30.0	30.6	28.3	13.8
10000	38.5	38.4	40.3	37.3	37.3	34.4	31.1	27.3	25.7	23.4	23.2	25.6	29.5	30.0	29.0	25.6	26.0	23.4	8.8
12500	33.4	33.3	35.0	32.1	32.1	29.0	25.7	22.5	20.9	18.6	18.8	21.1	25.0	25.4	24.5	21.1	21.5	18.6	3.9
16000	27.8	27.7	29.2	26.4	26.4	23.2	19.9	17.3	15.6	13.4	13.9	16.2	20.1	20.4	19.5	16.2	16.5	13.4	
20000	21.7	21.6	22.8	20.1	20.1	16.7	13.5	11.6	10.0	7.7	8.7	10.8	14.6	14.9	14.1	10.9	11.1	7.7	
25000	15.0	14.9	15.8	13.3	13.2	9.8	6.7	5.3	3.9	1.8	3.1	5.1	8.5	8.8	8.2	5.3	5.2	1.6	

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
IDLE, 62% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 01
AIRCRAFT CODE 038
OPERATION CODE 01013
PROFILE VERSION A
13 APR 76
PAGE J1

P=PNLT A=AL T=ALT

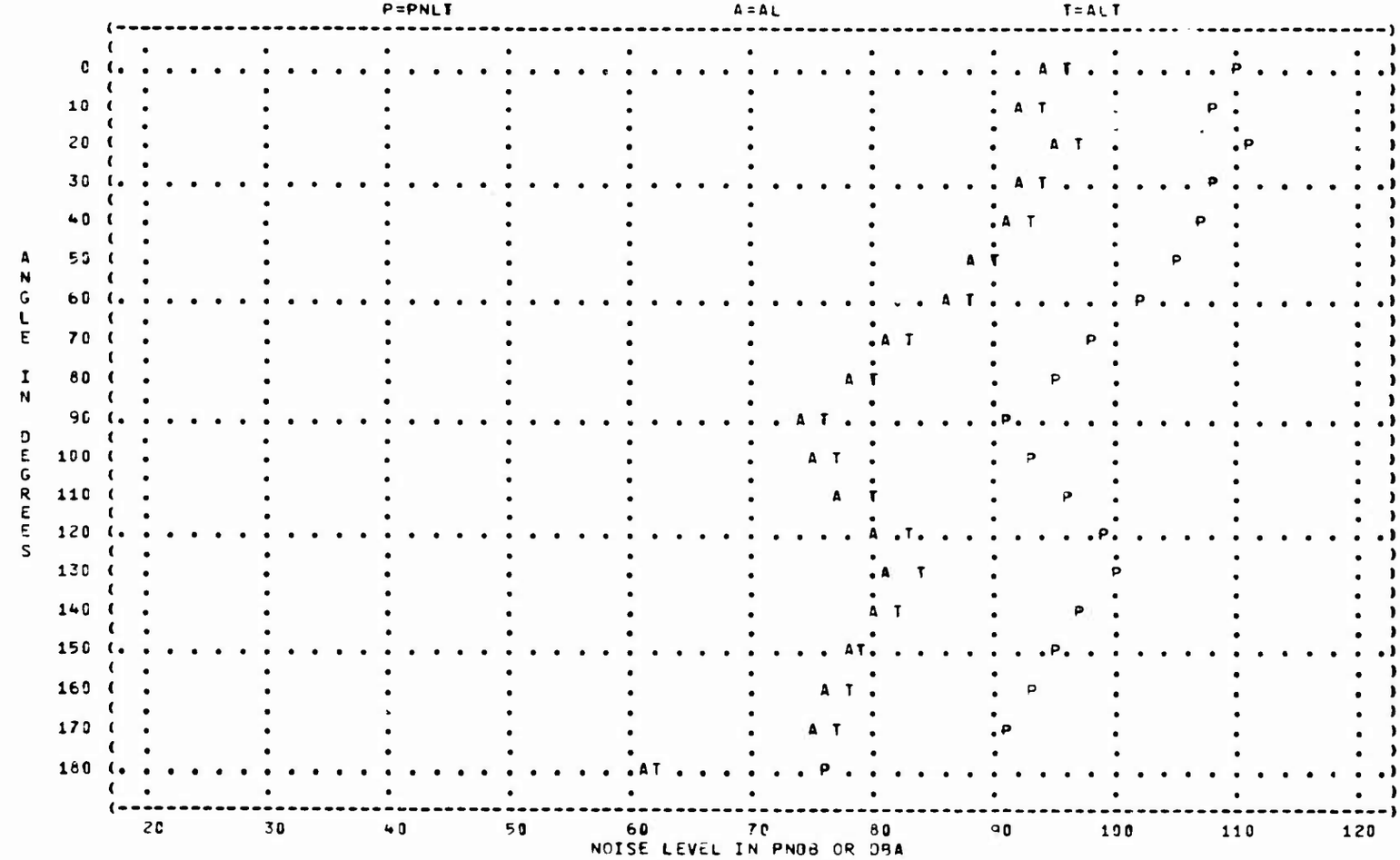


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 02
AIRCRAFT CODE 038
OPERATION CODE 01019
PROFILE VERSION A
13 APR 76
PAGE C2

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	72	74	74	75	77	78	78	76	78	79	79	80	84	89	94	97	96	90	70
63	76	76	76	77	79	79	80	79	80	80	80	83	86	91	96	100	98	91	71
80	77	78	78	79	79	80	79	80	80	81	83	85	89	94	99	102	99	92	72
100	78	79	80	79	80	80	81	79	81	82	84	85	90	95	101	105	102	92	72
125	80	79	81	79	81	81	81	81	82	82	84	87	90	94	100	105	102	91	71
160	82	81	83	81	81	82	83	83	83	84	85	88	90	93	96	103	100	88	68
200	83	83	84	82	83	82	83	84	84	84	86	89	92	96	96	101	99	84	64
250	83	82	84	83	83	83	83	82	83	84	87	89	91	95	96	97	95	79	59
315	82	82	84	83	83	82	82	82	83	83	86	89	91	93	95	92	91	73	53
400	83	83	84	84	84	83	82	82	83	83	86	88	91	92	93	90	87	69	49
500	83	84	84	84	84	83	81	81	82	82	84	86	89	90	90	88	84	66	46
630	82	83	84	84	84	83	81	81	82	81	83	86	88	89	87	86	81	64	44
800	81	83	83	83	83	82	81	80	82	80	82	84	85	86	84	83	78	64	44
1000	79	83	81	82	82	82	80	79	80	79	81	83	84	83	80	79	75	62	42
1250	78	83	80	82	81	82	80	78	79	78	79	82	82	81	77	76	73	63	43
1600	78	83	79	80	80	80	79	77	78	76	76	79	79	77	77	74	72	62	42
2000	80	82	79	79	80	80	79	77	76	75	75	76	77	75	77	73	72	60	40
2500	81	80	81	79	80	80	79	77	77	75	76	77	76	76	76	72	72	66	46
3150	80	79	81	80	80	79	78	78	76	75	76	76	76	76	76	72	71	61	41
4000	79	79	81	80	80	78	77	77	76	73	74	76	76	74	75	71	69	57	37
5000	79	80	81	79	80	77	76	76	76	73	74	75	75	74	74	70	70	56	36
6300	77	78	79	77	77	77	75	75	74	73	72	73	73	73	73	68	67	53	33
8000	71	72	73	71	71	71	71	70	69	69	69	70	70	71	72	67	65	51	31
10000	66	67	68	66	66	66	65	65	64	65	65	67	67	67	69	65	60	48	28
OVERALL	94	95	95	95	95	95	94	93	94	94	96	98	101	104	108	111	109	99	79

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 02
AIRCRAFT CODE 038
OPERATION CODE 01019
PROFILE VERSION A
13 APR 76
PAGE 02

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 79 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	107.7	108.1	108.9	108.0	108.2	107.6	106.8	106.0	105.9	104.8	106.3	107.8	109.9	111.6	112.8	114.5	112.0	100.4	79.1
250	105.5	105.8	106.7	105.7	106.0	105.4	104.5	103.8	103.6	102.5	104.0	105.6	107.7	109.5	110.7	112.4	109.9	98.4	76.8
315	103.2	103.5	104.3	103.3	103.7	103.1	102.2	101.4	101.3	100.2	101.8	103.4	105.5	107.3	108.6	110.3	107.8	96.2	74.4
400	100.8	101.1	101.9	100.9	101.3	100.7	99.8	99.0	99.0	97.8	99.4	101.2	103.3	105.1	106.4	108.2	105.6	94.1	72.0
500	98.4	98.7	99.4	98.4	98.7	98.2	97.4	96.5	96.5	95.4	96.9	98.9	101.0	102.8	104.2	105.9	103.3	91.8	69.4
630	95.8	96.1	96.8	95.7	96.1	95.6	94.8	93.9	93.9	92.8	94.4	96.4	98.6	100.3	101.9	103.5	100.8	89.4	66.5
800	93.0	93.3	93.9	92.9	93.3	92.9	92.1	91.1	91.2	90.0	91.9	93.9	96.1	97.7	99.3	101.0	98.1	86.8	63.6
1000	90.1	90.5	91.0	90.3	90.4	90.0	89.2	88.1	88.3	87.2	89.2	91.2	93.5	95.1	96.5	98.2	95.4	83.8	60.2
1250	87.0	87.5	87.8	86.8	87.3	86.9	86.0	84.8	85.2	84.3	86.4	88.4	90.7	92.3	93.5	95.2	92.3	80.3	56.5
1600	83.6	84.2	84.5	83.5	84.0	83.6	82.7	81.5	82.0	81.3	83.4	85.5	87.8	89.4	90.5	91.8	88.9	76.5	52.3
2000	80.0	80.8	80.8	80.1	80.4	80.0	79.1	78.2	78.8	78.1	80.3	82.3	84.7	86.2	87.3	88.1	85.0	72.3	47.0
2500	75.9	77.0	77.0	76.6	76.6	76.0	75.2	74.3	75.0	74.2	76.4	78.5	80.9	82.3	83.3	83.7	80.5	67.6	40.7
3150	71.5	72.9	72.9	72.6	72.8	72.0	70.9	70.1	70.9	70.1	72.1	74.3	76.7	78.0	78.8	78.5	75.5	62.2	32.4
4000	66.9	68.3	68.4	68.2	68.3	67.5	66.4	65.6	66.4	65.5	67.6	69.9	72.2	73.4	73.8	73.5	70.3	55.8	17.5
5000	61.9	63.4	63.6	63.3	63.4	62.6	61.6	60.6	61.6	60.5	62.6	65.1	67.3	68.5	68.8	68.5	64.9	49.1	2.5
6300	56.6	58.3	58.3	58.1	58.2	57.5	56.4	55.3	56.3	55.3	57.4	59.9	62.2	63.4	63.7	63.3	59.6	41.9	
8000	52.2	53.7	53.8	53.7	53.7	52.9	51.7	50.8	51.8	50.9	53.3	55.7	58.3	59.6	59.8	59.7	55.8	36.9	
10000	47.3	48.7	48.9	48.7	48.7	47.8	46.3	45.7	46.8	45.8	48.6	51.1	54.0	55.4	55.7	55.8	51.6	30.3	
12500	41.3	43.1	43.2	42.9	42.7	41.9	40.4	39.8	41.1	40.2	43.3	46.0	49.3	50.9	51.2	51.4	46.7	22.9	
16000	34.7	36.2	36.9	36.8	36.4	35.5	33.8	32.8	34.5	33.6	37.0	40.1	43.8	45.7	45.8	46.2	41.4	14.5	
20000	27.4	28.6	29.5	29.2	28.8	27.6	25.5	25.2	27.0	25.8	29.9	33.0	37.3	39.5	40.0	40.6	35.9	6.1	
25000	16.1	17.7	18.8	18.4	17.7	16.2	12.4	12.4	15.3	12.9	18.6	23.2	29.2	31.7	33.4	34.6	29.3		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 02
AIRCRAFT CODE 038
OPERATION CODE 01019
PROFILE VERSION A
13 APR 76
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	107.7	108.1	108.9	108.0	108.2	107.6	106.8	106.0	105.9	104.8	106.3	107.8	109.9	111.6	112.8	114.5	112.0	102.4	81.0
250	105.5	105.8	106.7	105.7	106.0	105.4	104.5	103.8	103.6	102.5	104.0	105.6	107.7	109.5	110.7	112.4	109.9	100.3	78.7
315	103.2	103.5	104.3	103.3	103.7	103.1	102.2	101.4	101.3	100.2	101.8	103.4	105.5	107.3	108.6	110.3	107.8	98.1	76.3
400	100.8	101.1	101.9	100.9	101.3	100.7	99.8	99.0	99.0	97.8	99.4	101.2	103.3	105.1	106.4	108.2	105.6	96.0	73.9
500	98.4	98.7	99.4	98.4	98.7	98.2	97.4	96.5	96.5	95.4	96.9	98.9	101.0	102.8	104.2	105.9	103.3	93.7	71.3
630	95.8	96.1	96.8	95.7	96.1	95.6	94.8	93.9	93.9	92.8	94.4	96.4	98.6	100.3	101.9	103.5	100.8	91.3	69.4
800	93.0	93.3	93.9	92.9	93.3	92.9	92.1	91.1	91.2	90.0	91.9	93.9	96.1	97.7	99.3	101.0	98.1	88.7	65.5
1000	90.1	90.5	91.0	90.0	90.4	90.0	89.2	88.1	88.3	87.2	89.2	91.2	93.5	95.1	96.5	98.2	95.4	85.7	62.1
1250	87.0	87.5	87.8	86.8	87.3	86.9	86.0	84.8	85.2	84.3	86.4	88.4	90.7	92.3	93.5	95.2	92.3	82.2	58.4
1600	83.6	84.2	84.5	83.5	84.0	83.6	82.7	81.5	82.0	81.3	83.4	85.5	87.8	89.4	90.5	91.8	88.9	78.4	54.2
2000	80.0	80.8	80.8	80.1	80.4	80.0	79.1	78.2	78.8	78.1	80.3	82.3	84.7	86.2	87.3	88.1	85.0	74.2	49.9
2500	75.9	77.0	77.0	76.6	76.6	76.0	75.2	74.3	75.0	74.2	76.4	78.5	80.9	82.3	83.3	83.7	80.5	69.5	42.7
3150	71.5	72.9	72.9	72.6	72.8	72.0	70.9	70.1	70.9	70.1	72.1	74.3	76.7	78.0	78.8	78.5	75.5	64.1	34.3
4000	66.9	68.3	68.4	68.2	68.3	67.5	66.4	65.6	66.4	65.5	67.6	69.9	72.2	73.4	73.8	73.5	70.3	57.3	19.0
5000	61.9	63.4	63.6	63.3	63.4	62.6	61.6	60.6	61.6	60.5	62.6	65.1	67.3	68.5	68.8	68.5	64.9	50.3	3.7
6300	56.6	58.3	58.3	58.1	58.2	57.5	56.4	55.3	56.3	55.3	57.4	59.9	62.2	63.4	63.7	63.3	59.6	42.7	
8000	52.2	53.7	53.8	53.7	53.7	52.9	51.7	50.8	51.8	50.9	53.3	55.7	58.3	59.6	59.8	59.7	55.8	37.3	
10000	47.3	48.7	48.9	48.7	48.7	47.8	46.3	45.7	46.8	45.8	48.6	51.1	54.0	55.4	55.7	55.8	51.6	30.3	
12500	41.3	43.1	43.2	42.9	42.7	41.9	40.4	39.8	41.1	40.2	43.3	46.0	49.3	50.9	51.2	51.4	46.7	22.9	
16000	34.7	36.2	36.9	36.8	36.4	35.5	33.8	32.8	34.5	33.6	37.0	40.1	43.8	45.7	45.8	46.2	41.4	14.5	
20000	27.4	28.6	29.5	29.2	28.8	27.6	25.5	25.2	27.0	25.8	29.9	33.3	37.3	39.5	40.0	40.6	35.9	6.1	
25000	16.1	17.7	18.8	18.4	17.7	16.2	12.4	12.4	15.3	12.9	18.6	23.2	29.2	31.7	33.4	34.6	29.3		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATIONS:
OMEGA 8.2
TEST 75-038-001
RUN 02
AIRCRAFT CODE 038
OPERATION CODE 01019
PROFILE VERSION A
13 APR 75
PAGE F2

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 53 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	93.7	95.1	94.9	94.5	94.6	94.0	93.0	91.9	92.4	91.2	92.9	95.0	96.9	98.1	98.4	99.4	96.9	83.9	63.9
250	91.5	92.9	92.7	92.3	92.5	91.9	90.8	89.7	90.2	89.1	90.8	92.9	94.8	96.0	96.4	97.4	94.9	81.9	61.9
315	89.3	90.7	90.5	90.1	90.2	89.7	88.6	87.5	88.0	86.9	88.7	90.8	92.7	93.9	94.3	95.4	92.8	79.8	59.8
400	87.0	88.5	88.2	87.9	88.0	87.4	86.4	85.3	85.8	84.7	86.5	88.6	90.6	91.8	92.2	93.3	90.7	77.7	57.7
500	84.6	86.2	85.8	85.6	85.7	85.1	84.1	83.0	83.6	82.5	84.3	86.4	88.4	89.7	90.0	91.0	88.5	75.5	55.5
630	82.2	83.8	83.4	83.2	83.3	82.8	81.7	80.6	81.3	80.2	82.0	84.2	86.2	87.4	87.8	88.7	86.1	73.1	53.1
800	79.8	81.4	81.0	80.8	80.9	80.4	79.3	78.2	78.9	77.9	79.7	81.9	84.0	85.1	85.4	86.2	83.5	70.6	50.6
1000	77.2	78.9	78.4	78.4	78.4	77.9	76.8	75.7	76.5	75.4	77.3	79.5	81.6	82.8	83.0	83.5	80.9	67.9	47.9
1250	74.6	76.3	75.8	75.8	75.9	75.3	74.2	73.1	73.9	72.9	74.8	77.0	79.2	80.2	80.4	80.7	78.0	64.9	44.9
1600	71.8	73.6	73.1	73.2	73.2	72.7	71.5	70.4	71.3	70.3	72.3	74.5	76.6	77.6	77.6	77.7	74.9	61.7	41.7
2000	69.0	70.9	70.3	70.5	70.4	69.9	68.7	67.7	68.6	67.6	69.6	71.8	74.0	74.9	74.8	74.5	71.6	58.1	38.1
2500	65.9	67.9	67.3	67.5	67.5	66.9	65.7	64.6	65.6	64.6	66.6	68.8	71.0	71.8	71.5	71.0	67.9	54.2	34.2
3150	62.6	64.6	64.0	64.3	64.2	63.6	62.4	61.3	62.4	61.3	63.3	65.5	67.7	68.4	67.8	67.1	63.8	49.9	29.9
4000	58.9	61.0	60.4	60.7	60.6	60.0	58.8	57.7	58.8	57.7	59.7	61.9	64.0	64.6	63.8	62.8	59.3	45.1	25.1
5000	54.7	57.0	56.3	56.7	56.6	56.0	54.7	53.6	54.8	53.6	55.6	57.8	59.8	60.4	59.4	58.4	54.7	40.6	20.6
6300	50.3	52.6	51.9	52.4	52.2	51.6	50.3	49.2	50.4	49.3	51.2	53.4	55.4	56.0	54.8	53.8	50.1	36.0	16.0
8000	46.3	48.5	48.0	48.4	48.2	47.5	46.2	45.3	46.5	45.4	47.4	49.6	51.7	52.4	51.4	50.5	46.9	32.8	12.8
10000	42.0	44.3	43.7	44.0	43.9	43.1	41.8	41.0	42.2	41.1	43.3	45.5	47.8	48.5	47.7	47.1	43.5	29.7	9.7
12500	37.4	39.1	39.1	39.3	39.1	38.3	37.0	36.3	37.5	36.5	38.7	41.0	43.4	44.3	43.7	43.4	40.0	26.7	6.7
16000	32.4	33.8	34.1	34.1	33.9	33.1	31.8	31.3	32.4	31.5	33.8	36.1	38.6	39.7	39.5	39.6	36.4	23.6	3.6
20000	26.8	28.0	28.5	28.4	28.3	27.4	26.1	25.7	26.8	26.0	28.4	30.7	33.4	34.7	34.9	35.7	32.7	20.6	.6
25000	20.8	21.6	22.4	22.1	22.0	21.1	20.0	19.7	20.7	20.1	22.6	24.9	27.7	29.3	30.1	31.8	28.9	17.6	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 02
AIRCRAFT CODE 038
OPERATION CODE 01019
PROFILE VERSION A
17 APR 76
PAGE 02

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	93.7	95.1	94.9	94.5	94.6	94.0	93.0	91.9	92.4	91.2	92.9	95.0	96.9	98.1	98.4	99.4	96.9	85.8	65.8
250	91.5	92.9	92.7	92.3	92.5	91.9	90.8	89.7	90.2	89.1	90.8	92.9	94.8	96.0	96.4	97.4	94.9	83.9	63.8
315	89.3	90.7	90.5	90.1	90.2	89.7	88.6	87.5	88.0	86.9	88.7	90.8	92.7	93.9	94.3	95.4	92.8	81.8	61.8
400	87.0	88.5	88.1	87.9	88.0	87.4	86.4	85.3	85.8	84.7	86.5	88.6	90.6	91.8	92.2	93.3	90.7	79.7	59.7
500	84.6	86.2	85.9	85.6	85.7	85.1	84.1	83.0	83.6	82.5	84.3	86.4	88.4	89.7	90.0	91.0	88.5	77.4	57.4
630	82.2	83.8	83.4	83.2	83.3	82.8	81.7	80.6	81.3	80.2	82.0	84.2	86.2	87.4	87.8	88.7	86.1	75.0	55.0
800	79.8	81.4	81.0	80.8	80.9	80.4	79.3	78.2	78.9	77.9	79.7	81.9	84.0	85.1	85.4	86.2	83.5	72.5	52.5
1000	77.2	78.9	78.4	78.4	78.4	77.9	76.8	75.7	76.5	75.4	77.3	79.5	81.6	82.8	83.0	83.5	80.9	69.8	49.8
1250	74.6	76.3	75.8	75.8	75.9	75.3	74.2	73.1	73.9	72.9	74.8	77.0	79.2	80.2	80.4	80.7	78.0	66.8	46.8
1600	71.8	73.6	73.1	73.2	73.2	72.7	71.5	70.4	71.3	70.3	72.3	74.5	76.6	77.6	77.6	77.7	74.9	63.6	43.6
2000	69.0	70.9	70.3	70.5	70.4	69.9	68.7	67.7	68.6	67.6	69.6	71.8	74.0	74.9	74.8	74.5	71.6	60.0	40.0
2500	65.9	67.9	67.3	67.5	67.5	66.9	65.7	64.6	65.6	64.6	66.6	68.8	71.0	71.8	71.5	71.0	67.9	56.1	36.1
3150	62.6	64.6	64.0	64.3	64.2	63.6	62.4	61.3	62.4	61.3	63.3	65.5	67.7	68.4	67.8	67.1	63.8	51.8	31.8
4000	58.9	61.0	60.4	60.7	60.6	60.0	58.8	57.7	58.8	57.7	59.7	61.9	64.0	64.6	63.8	62.8	59.3	46.7	26.7
5000	54.7	57.0	56.3	56.7	56.6	56.0	54.7	53.6	54.8	53.6	55.6	57.8	59.8	60.4	59.4	58.4	54.7	41.7	21.7
6300	50.3	52.6	51.9	52.4	52.2	51.6	50.3	49.2	50.4	49.3	51.2	53.4	55.4	56.0	54.8	53.8	50.1	36.7	16.7
8000	46.3	48.5	48.0	48.4	48.2	47.5	46.2	45.3	46.5	45.4	47.4	49.6	51.7	52.4	51.4	50.5	46.9	33.2	13.2
10000	42.0	44.0	43.7	44.0	43.9	43.1	41.8	41.0	42.2	41.1	43.3	45.5	47.8	48.5	47.7	47.1	43.5	29.7	9.7
12500	37.4	39.1	39.1	39.3	39.1	38.3	37.0	36.3	37.5	36.5	38.7	41.0	43.4	44.3	43.7	43.4	40.0	26.7	6.7
16000	32.4	33.8	34.1	34.1	33.9	33.1	31.8	31.3	32.4	31.5	33.8	36.1	38.6	39.7	39.5	39.6	36.4	23.6	3.6
20000	26.8	28.0	28.5	28.4	28.3	27.4	26.1	25.7	26.8	26.0	28.4	30.7	33.4	34.7	34.9	35.7	32.7	20.6	.6
25000	20.8	21.6	22.4	22.1	22.0	21.1	20.4	19.7	20.7	20.1	22.6	24.9	27.7	29.3	30.1	31.8	28.9	17.6	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

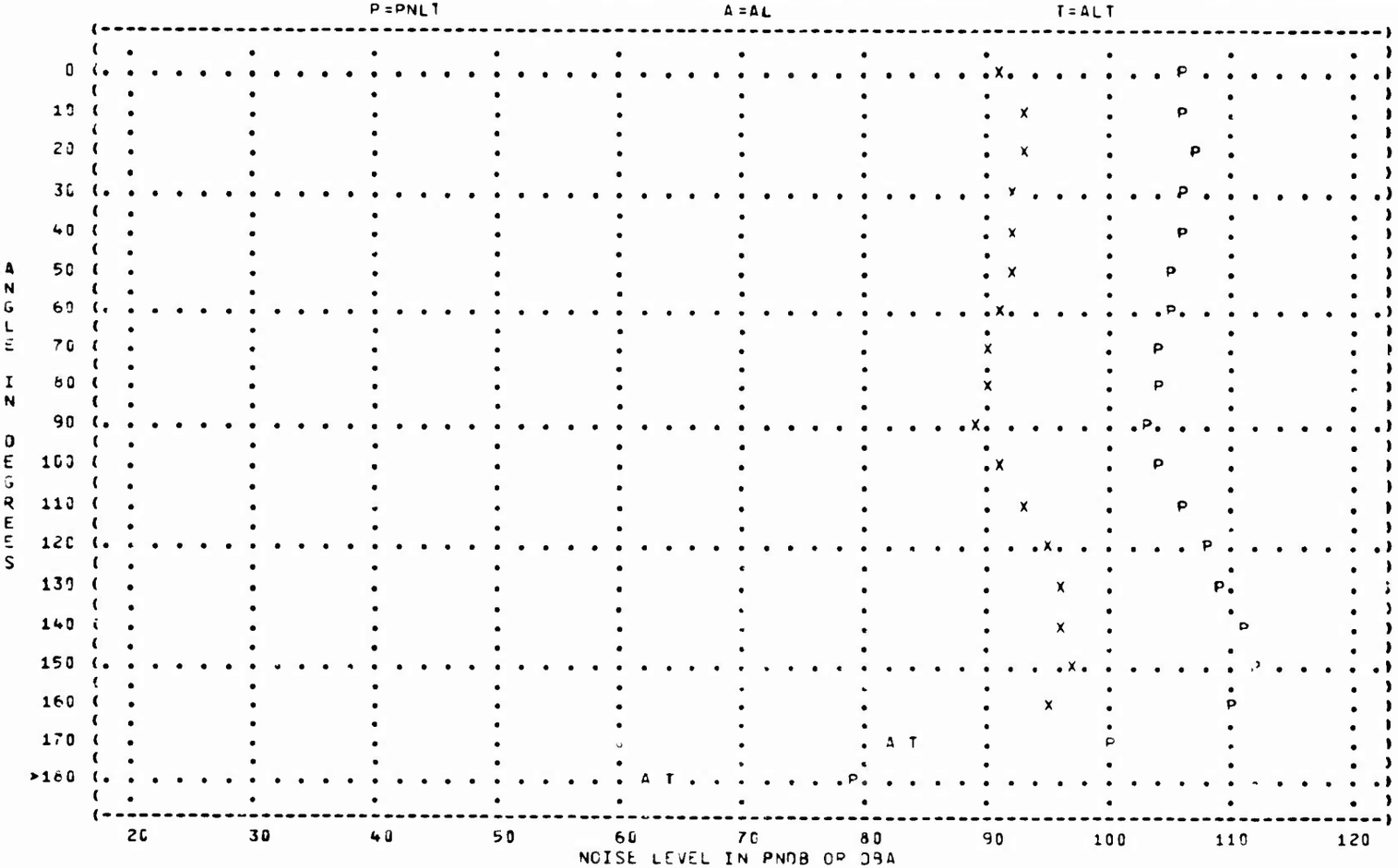
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 02
AIRCRAFT CODE 038
OPERATION CODE 01019
PROFILE VERSION A
13 APR 76
PAGE J2



▸ SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 03
AIRCRAFT CODE 038
OPERATION CODE 01006
PROFILE VERSION A
13 APR 76
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NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	80	81	82	83	83	84	85	87	87	89	89	92	98	102	105	109	107	97	87
63	84	85	85	85	85	87	87	89	88	91	93	95	101	107	111	112	109	99	89
80	85	85	86	85	85	87	88	89	90	91	94	97	103	110	116	115	112	102	92
100	87	88	88	87	88	88	89	90	91	93	97	100	106	114	119	117	113	103	93
125	89	88	89	88	88	89	91	92	92	95	97	101	108	113	120	117	115	105	95
160	92	92	93	91	89	91	92	94	93	97	99	102	109	112	119	119	115	105	95
200	94	93	94	92	92	92	93	95	95	97	100	105	113	117	117	120	117	107	97
250	90	92	94	93	93	93	93	96	96	98	101	105	114	120	118	119	118	108	98
315	90	94	95	94	92	92	93	95	95	98	101	105	112	118	119	116	115	105	95
400	94	94	95	95	93	94	94	95	96	99	102	106	113	117	118	116	114	104	94
500	99	99	101	98	96	94	94	95	97	98	101	105	112	116	116	115	110	100	90
630	97	101	102	100	98	96	94	94	97	97	101	105	111	114	115	112	108	98	88
800	97	100	102	102	99	99	96	95	97	97	100	104	110	113	112	109	105	95	85
1000	94	95	98	100	97	99	98	96	97	97	100	104	108	111	109	107	102	92	82
1250	92	93	95	97	95	96	97	95	95	96	99	103	107	110	107	103	101	91	81
1600	89	91	93	94	93	93	94	92	97	97	99	101	104	108	105	101	99	89	79
2000	86	88	90	91	92	92	93	91	95	97	98	99	102	106	103	100	96	86	76
2500	83	87	89	89	90	91	93	91	94	97	97	100	101	106	103	101	96	86	76
3150	82	84	87	87	89	89	91	90	93	97	96	100	101	105	103	99	94	84	74
4000	79	83	84	84	86	87	89	89	92	95	95	98	100	103	101	97	91	81	71
5000	77	79	81	81	83	84	87	87	90	93	93	96	98	102	100	96	89	79	69
6300	74	77	79	79	81	82	86	85	88	91	91	93	96	100	98	94	86	76	66
8000	70	72	74	75	76	77	81	81	85	86	88	91	95	100	96	94	84	74	64
10000	65	67	69	70	71	73	77	76	80	82	83	86	92	98	94	91	79	69	59
OVERALL	106	107	109	108	106	107	106	106	108	110	112	116	122	127	128	128	125	115	105

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 03
AIRCRAFT CODE 038
OPERATION CODE 01006
PROFILE VERSION A
13 APR 76
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	115.7	117.3	118.8	118.7	117.3	118.2	119.5	118.7	121.5	123.7	124.8	128.2	132.3	136.9	136.8	135.0	132.0	122.0	112.0
250	113.6	115.2	116.7	116.5	115.7	116.3	117.3	116.5	119.2	121.5	122.6	125.9	130.2	134.8	134.7	132.9	129.9	119.9	109.9
315	111.4	113.0	114.5	114.4	113.4	113.8	115.1	114.2	117.0	119.2	120.3	123.7	128.0	132.6	132.6	130.8	127.8	117.8	107.8
400	109.2	110.8	112.3	112.1	111.1	111.5	112.7	111.9	114.6	116.8	118.0	121.3	125.8	130.4	130.4	128.6	125.7	115.7	105.6
500	107.0	108.5	110.0	109.8	108.7	109.1	110.3	109.5	112.2	114.3	115.6	118.9	123.5	128.1	128.1	126.3	123.4	113.4	103.3
630	104.6	106.2	107.7	107.5	106.3	106.6	107.8	107.0	109.7	111.7	113.0	116.3	121.1	125.6	125.8	123.8	121.0	111.0	100.8
800	102.2	103.7	105.3	105.0	103.8	104.1	105.1	104.3	107.0	109.0	110.4	113.6	118.7	122.9	123.4	121.4	118.4	108.4	98.2
1000	99.7	101.2	102.7	102.5	101.2	101.4	102.3	101.5	104.2	106.2	107.6	110.7	116.1	120.3	120.8	118.9	115.8	105.8	95.5
1250	97.1	98.6	100.1	99.8	98.4	98.7	99.2	98.4	101.1	103.1	104.5	107.7	113.4	117.5	118.1	116.2	113.1	103.0	92.7
1600	94.3	95.8	97.3	96.9	95.5	95.7	95.9	95.1	97.9	99.8	101.3	104.7	110.5	114.7	115.2	113.4	110.3	100.1	89.9
2000	91.4	92.8	94.3	94.0	92.4	92.6	92.5	91.8	94.6	96.2	97.9	101.6	107.5	111.7	112.2	110.4	107.3	97.1	86.8
2500	88.2	89.6	91.2	90.7	89.1	89.3	89.0	88.2	90.9	92.2	94.1	98.0	103.8	108.0	108.5	106.6	103.5	93.3	82.9
3150	84.5	86.2	87.7	87.2	85.5	85.7	85.1	84.3	86.9	87.9	90.3	94.0	99.6	104.1	104.3	102.4	99.3	89.0	78.6
4000	80.3	82.2	83.7	83.4	81.5	81.7	80.9	80.1	82.5	83.3	85.0	89.7	95.3	99.7	99.5	98.0	94.4	84.1	73.7
5000	75.8	77.7	79.3	79.1	77.2	77.3	76.3	75.5	77.7	78.4	81.2	85.0	90.6	95.0	94.8	93.2	89.5	79.1	68.7
6300	70.9	72.9	74.6	74.5	72.4	72.5	71.5	70.6	72.7	73.2	76.2	80.0	85.7	90.1	89.9	88.4	84.6	74.2	63.6
8000	67.1	68.8	70.4	70.2	68.0	68.2	66.8	66.1	68.2	68.9	72.0	75.8	81.9	86.3	86.3	84.8	81.0	70.6	59.8
10000	62.9	64.5	66.0	65.5	63.2	63.4	61.9	61.3	63.5	64.4	67.4	71.5	77.8	82.3	82.3	80.9	77.1	66.6	55.6
12500	58.3	59.5	61.1	60.2	58.0	57.9	56.4	56.4	58.6	59.5	62.5	66.9	73.3	77.9	78.1	76.8	73.0	62.3	51.2
16000	53.2	54.0	55.6	54.4	52.2	51.6	50.3	50.9	53.2	54.1	57.3	61.8	68.5	73.2	73.5	72.3	68.5	57.6	45.9
20000	47.3	47.9	49.8	48.1	45.6	44.4	43.6	44.7	47.0	48.0	51.4	56.2	63.1	67.9	68.5	67.3	63.6	52.4	39.6
25000	39.9	40.7	42.7	39.9	37.6	36.0	35.6	37.2	39.4	40.8	44.5	49.8	57.1	62.1	63.0	61.8	58.3	46.4	33.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 03
AIRCRAFT CODE 038
OPERATION CODE 01006
PROFILE VERSION A
13 APR 76
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	117.0	117.3	118.8	118.7	117.9	118.2	119.5	118.7	121.>	123.7	124.8	128.2	132.3	137.>	136.8	135.0	132.0	122.0	112.0
250	114.9	115.2	116.7	116.5	115.7	115.0	117.3	116.5	119.2	121.5	122.6	125.9	130.?	135.3	134.7	132.9	129.9	119.9	109.9
315	112.7	113.0	114.5	114.4	113.4	113.8	115.1	114.2	117.0	119.2	120.3	123.7	128.0	133.2	132.6	130.8	127.8	117.8	107.8
400	110.5	110.8	112.3	112.1	111.1	111.5	112.7	111.9	114.6	116.8	118.0	121.3	125.8	130.9	130.4	128.6	125.7	115.7	105.6
500	108.3	108.5	110.0	109.8	108.7	109.1	110.3	109.5	112.2	114.3	115.6	118.9	123.5	128.6	128.1	126.3	123.4	113.4	103.3
630	105.9	106.2	107.7	107.5	106.3	106.6	107.8	107.0	109.7	111.7	113.0	116.3	121.1	126.1	125.8	123.8	121.0	111.0	100.8
800	103.5	103.7	105.3	105.0	103.8	104.1	105.1	104.3	107.0	109.0	110.4	113.6	118.7	123.5	123.4	121.4	118.4	108.4	98.2
1000	101.0	101.2	102.7	102.5	101.2	101.4	102.3	101.5	104.2	106.2	107.6	110.7	116.1	120.8	120.8	118.9	115.8	105.8	95.5
1250	98.4	98.6	100.1	99.8	98.4	98.7	99.2	98.4	101.1	103.1	104.5	107.7	113.4	118.1	118.1	116.2	113.1	103.0	92.7
1600	95.6	95.8	97.3	96.9	95.5	95.7	95.9	95.1	97.9	99.8	101.3	104.7	110.5	115.2	115.2	113.4	110.3	100.1	89.9
2000	92.7	92.8	94.3	94.0	92.4	92.6	92.5	91.8	94.6	96.2	97.9	101.6	107.5	112.2	112.2	110.4	107.3	97.1	86.8
2500	89.6	89.6	91.2	90.7	89.1	89.3	89.0	88.2	90.9	92.2	94.1	98.0	103.8	108.6	108.5	106.6	103.5	93.3	82.9
3150	85.8	86.2	87.7	87.2	85.5	85.7	85.1	84.3	86.9	87.9	90.3	94.0	99.6	104.6	104.3	102.4	99.3	89.0	78.6
4000	81.4	82.2	83.7	83.4	81.5	81.7	80.9	80.1	82.5	83.3	86.0	89.7	95.3	100.1	99.6	98.0	94.4	84.1	73.7
5000	76.6	77.7	79.3	79.1	77.2	77.3	76.3	75.5	77.7	78.4	81.2	85.0	90.6	95.3	94.8	93.2	89.5	79.1	68.7
6300	71.5	72.9	74.6	74.5	72.4	72.5	71.5	70.6	72.7	73.2	76.2	80.0	85.7	90.3	89.9	88.4	84.6	74.2	63.6
8000	67.4	68.8	70.4	70.2	68.0	68.2	66.8	66.1	68.2	68.9	72.0	75.9	81.9	86.4	86.3	84.8	81.0	70.6	59.8
10000	62.9	64.5	66.0	65.5	63.2	63.4	61.9	61.3	63.5	64.4	67.4	71.5	77.8	82.3	82.3	80.9	77.1	66.6	55.6
12500	58.3	59.5	61.1	60.2	58.0	57.9	56.4	56.4	58.6	59.5	62.5	66.9	73.3	77.9	78.1	76.8	73.0	62.3	51.2
16000	53.2	54.0	55.6	54.4	52.2	51.8	50.3	50.9	53.2	54.1	57.3	61.8	68.5	73.2	73.5	72.3	68.5	57.6	45.9
20000	47.3	47.9	49.6	48.1	45.6	44.4	43.6	44.7	47.0	48.0	51.4	56.2	63.1	67.9	68.5	67.3	63.6	52.4	39.6
25000	39.9	40.7	42.7	39.9	37.6	36.0	35.6	37.2	39.4	40.8	44.5	49.8	57.1	62.1	63.J	61.8	58.3	46.4	33.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (D9A)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 03
AIRCRAFT CODE 038
OPERATION CODE 01006
PROFILE VERSION A
13 APR 76
PAGE F3

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG: F100-PW-100(2)
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	105.1	106.9	106.7	106.8	107.0	107.3	107.2	106.1	106.7	109.8	111.7	115.1	120.0	124.1	123.6	121.7	118.8	108.8	98.8
250	103.0	104.8	106.6	106.7	104.9	105.1	105.1	104.0	106.6	107.6	109.5	112.9	117.9	122.1	121.5	119.6	116.7	106.7	96.7
315	100.9	102.7	104.6	104.6	102.8	103.0	102.9	101.8	104.4	105.4	107.4	110.8	115.8	119.9	119.5	117.6	114.7	104.7	94.7
400	98.8	100.6	102.4	102.5	100.7	100.9	100.7	99.6	102.2	103.1	105.2	108.6	113.7	117.8	117.3	115.5	112.6	102.6	92.6
500	96.6	98.4	100.3	100.1	98.5	98.7	98.4	97.4	99.9	100.8	102.9	106.4	111.5	115.6	115.2	113.3	110.4	100.4	90.4
630	94.5	96.3	98.1	98.2	96.2	96.4	96.1	95.1	97.6	98.4	100.6	104.1	109.3	113.4	113.0	111.1	108.2	98.2	88.2
800	92.2	94.0	95.9	95.9	93.9	94.1	93.8	92.8	95.2	96.0	98.2	101.7	107.0	111.1	110.7	108.8	105.9	95.9	85.9
1000	90.0	91.8	93.6	93.6	91.6	91.7	91.4	90.3	92.8	93.5	95.8	99.3	104.6	108.7	108.4	106.4	103.5	93.5	83.5
1250	87.6	89.4	91.3	91.2	89.2	89.3	88.8	87.8	90.2	90.8	93.3	96.8	102.2	106.2	105.9	103.9	100.9	90.9	80.9
1600	85.2	87.0	88.8	88.8	86.7	86.8	86.2	85.2	87.6	88.1	90.6	94.2	99.7	103.7	103.4	101.3	98.2	88.2	78.2
2000	82.7	84.5	86.3	86.2	84.0	84.1	83.4	82.5	84.8	85.2	87.9	91.6	97.0	101.0	100.7	98.6	95.5	85.5	75.5
2500	80.0	81.8	83.6	83.4	81.2	81.3	80.5	79.5	81.8	82.1	84.9	88.6	94.1	98.0	97.7	95.6	92.2	82.2	72.2
3150	77.0	78.8	80.6	80.5	78.2	78.2	77.3	76.3	78.6	78.8	81.6	85.4	90.8	94.7	94.3	92.1	88.6	78.6	68.6
4000	73.6	75.5	77.3	77.2	74.8	74.9	73.8	72.8	75.0	75.1	78.0	81.8	87.2	91.1	90.5	88.3	84.6	74.6	64.6
5000	69.6	71.5	73.4	73.3	70.9	71.0	69.9	68.9	71.8	70.9	74.0	77.8	83.1	86.9	86.3	84.0	80.2	70.2	60.2
6300	65.4	67.3	69.1	69.1	66.7	66.8	65.7	64.6	66.7	66.5	69.6	73.4	78.8	82.6	81.9	79.6	75.7	65.7	55.7
8000	61.6	63.5	65.3	65.1	62.6	62.7	61.4	60.4	62.4	62.4	65.5	69.5	75.0	78.8	78.2	76.1	72.2	62.2	52.2
10000	57.4	59.3	61.1	60.7	58.2	58.1	56.7	55.9	57.9	57.9	61.1	65.1	70.8	74.7	74.3	72.2	68.4	58.4	48.4
12500	52.9	54.7	56.4	55.8	53.3	53.0	51.5	50.9	52.9	53.1	56.3	60.4	66.3	70.2	70.0	68.0	64.3	54.3	44.3
16000	47.8	49.5	51.1	50.2	47.8	47.3	45.8	45.5	47.5	47.9	51.1	55.3	61.3	65.3	65.3	63.5	59.9	49.9	39.9
20000	42.1	43.7	45.3	44.1	41.7	40.9	39.5	39.6	41.6	42.2	45.4	49.6	55.8	60.0	60.1	58.5	55.1	45.1	35.1
25000	35.7	37.1	38.7	37.1	34.9	33.9	32.8	33.3	35.1	36.1	39.1	43.4	49.9	54.2	54.6	53.1	49.9	39.9	29.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 03
AIRCRAFT CODE 038
OPERATION CODE 01006
PROFILE VERSION A
13 APR 76
PAGE 63

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	106.4	106.9	108.7	108.8	107.0	107.3	107.2	106.1	108.7	109.8	111.7	115.1	120.0	124.7	123.6	121.7	118.8	108.8	98.8
250	104.3	104.8	106.6	106.7	104.9	105.1	105.1	104.0	106.6	107.6	109.5	112.9	117.9	122.6	121.5	119.6	116.7	106.7	96.7
315	102.2	102.7	104.6	104.6	102.8	103.0	102.9	101.8	104.4	105.4	107.4	110.9	115.8	120.5	119.5	117.6	114.7	104.7	94.7
400	100.1	100.6	102.4	102.5	100.7	100.9	100.7	99.6	102.2	103.1	105.2	108.6	113.7	118.3	117.3	115.5	112.6	102.6	92.6
500	98.0	98.4	100.3	100.3	98.5	98.7	98.4	97.4	99.8	100.8	102.9	106.4	111.5	116.2	115.2	113.3	110.4	100.4	90.4
630	95.8	96.3	98.1	98.2	96.2	96.4	96.1	95.1	97.6	98.4	100.6	104.1	109.3	113.9	113.0	111.1	108.2	98.2	88.2
800	93.6	94.0	95.9	95.9	93.9	94.1	93.8	92.8	95.2	96.0	98.2	101.7	107.0	111.6	110.7	108.8	105.9	95.9	85.9
1000	91.3	91.8	93.6	93.6	91.6	91.7	91.4	90.3	92.8	93.5	95.8	99.3	104.6	109.2	108.4	106.4	103.5	93.5	83.5
1250	89.0	89.4	91.3	91.2	89.2	89.3	88.8	87.8	90.2	90.8	93.3	96.8	102.2	106.8	105.9	103.9	100.9	90.9	80.9
1600	86.6	87.0	88.8	88.8	86.7	86.8	86.2	85.2	87.6	88.1	90.6	94.2	99.7	104.2	103.4	101.3	98.2	88.2	78.2
2000	84.1	84.5	86.3	86.2	84.0	84.1	83.4	82.5	84.8	85.2	87.9	91.6	97.0	101.5	100.7	98.6	95.5	85.5	75.5
2500	81.4	81.8	83.6	83.4	81.2	81.3	80.5	79.5	81.8	82.1	84.9	88.6	94.1	98.5	97.7	95.6	92.2	82.2	72.2
3150	78.3	78.8	80.6	80.5	78.2	78.2	77.3	76.3	78.6	78.8	81.6	85.4	90.8	95.2	94.3	92.1	89.6	78.6	68.6
4000	74.6	75.5	77.3	77.2	74.0	74.9	73.8	72.8	75.0	75.1	78.0	81.8	87.2	91.5	90.5	88.3	84.6	74.6	64.6
5000	70.4	71.5	73.4	73.3	70.9	71.0	69.9	68.9	71.0	70.9	74.0	77.9	83.1	87.3	86.3	84.0	80.2	70.2	60.2
6300	65.9	67.3	69.1	69.1	66.7	66.8	65.7	64.6	66.7	66.5	69.6	73.4	78.8	82.8	81.9	79.6	75.7	65.7	55.7
8000	61.9	63.5	65.3	65.1	62.6	62.7	61.4	60.4	62.4	62.4	65.5	69.5	75.0	78.9	78.2	76.1	72.2	62.2	52.2
10000	57.4	59.3	61.1	60.7	58.2	58.1	56.7	55.9	57.9	57.9	61.1	65.1	70.8	74.7	74.3	72.2	68.4	58.4	48.4
12500	52.9	54.7	56.4	55.8	53.3	53.0	51.5	50.9	52.9	53.1	56.3	60.4	66.3	70.2	70.0	68.0	64.3	54.3	44.3
16000	47.8	49.5	51.1	50.2	47.8	47.3	45.8	45.5	47.5	47.9	51.1	55.3	61.3	65.3	65.3	63.5	59.9	49.9	39.9
20000	42.1	43.7	45.3	44.1	41.7	40.9	39.5	39.6	41.5	42.2	45.4	49.6	55.8	60.0	60.1	58.5	55.1	45.1	35.1
25000	35.7	37.1	38.7	37.1	34.9	33.9	32.8	33.3	35.1	36.1	39.1	43.4	49.9	54.2	54.6	53.1	49.9	39.9	29.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

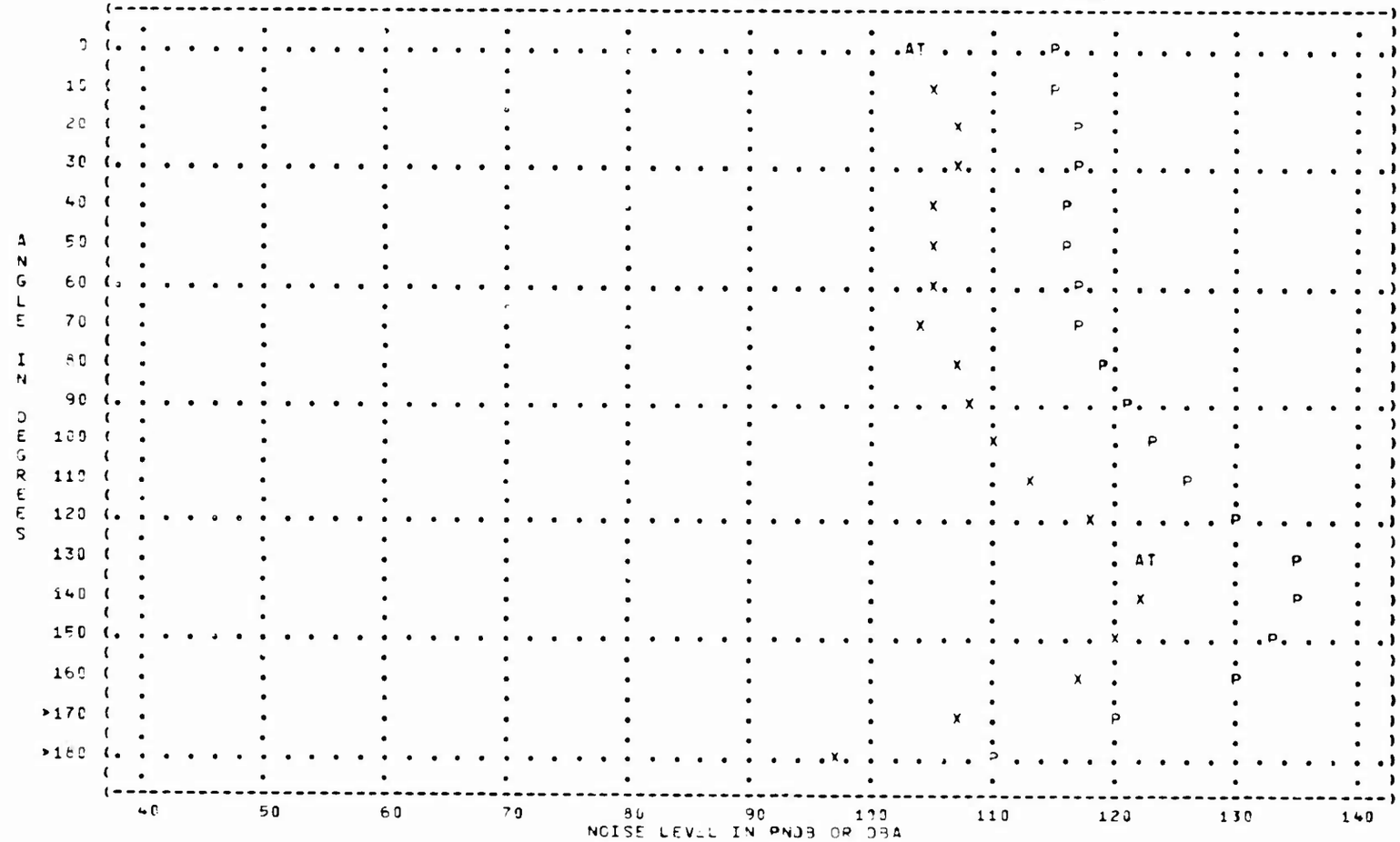
NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 03
AIRCRAFT CODE 038
OPERATION CODE 01006
PROFILE VERSION A
13 APR 76
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P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 04
AIRCRAFT CODE 038
OPERATION CODE 01001
PROFILE VERSION A
13 APR 76
PAGE 04

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
FULL AUGMENTATION, A/B
89% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	96	95	96	96	96	97	97	99	99	99	100	104	111	116	118	114	109	99	89
63	96	96	98	99	99	99	99	100	101	103	103	108	115	120	119	115	111	101	91
80	97	99	99	99	99	99	100	102	102	103	107	113	120	124	121	117	110	100	90
100	99	99	100	100	100	99	101	103	104	105	109	115	123	125	121	118	111	101	91
125	100	101	101	100	101	100	102	103	105	106	109	117	124	126	122	118	112	102	92
160	101	101	103	102	102	102	103	105	105	106	109	116	124	124	122	118	111	101	91
200	102	103	104	102	103	102	103	105	106	108	112	118	124	125	122	119	111	101	91
250	101	102	102	102	103	103	104	105	106	108	113	121	125	124	121	118	110	100	90
315	98	101	102	102	103	103	102	105	106	109	113	120	125	123	120	117	108	98	88
400	98	102	103	103	103	103	103	105	107	108	113	119	124	122	119	115	106	96	86
500	98	101	102	102	103	102	102	104	107	108	113	118	122	120	118	113	103	93	83
630	98	101	104	103	102	102	102	104	106	107	113	117	121	119	115	110	102	92	82
800	97	101	103	102	102	101	101	104	106	105	112	116	120	117	113	108	100	90	80
1000	95	97	101	101	100	101	100	103	105	105	111	114	119	116	111	106	99	89	79
1250	93	96	99<	100	99	100	100	102	104	105	109	113	118	115	109	104	100	90	80
1600	91	94	98	97	97	98	99	101	103	104	108	111	116	113	108	103	100	90	80
2000	90	92	96	96	97	97	98	100	102	104	107	110	114	111	107	102	98	88	78
2500	88	91	94	94	95	96	98	100	102	105	107	111	114	112	107	102	96	86	76
3150	85	89	93	92	94	95	96	99	101	104	107	110	114	111	106	100	93	83	73
4000	82	87	90	90	92	93	94	97	100	102	105	109	113	111	104	98	90	80	70
5000	79	84	87	87	89	90	91	94	98	101	104	108	113	111	104	96	88	78	68
6300	77	82	85	85	87	88	89	93	96	98	103	107	112	110	102	94	86	76	66
8000	72	78	80	80	82	84	85	89	93	97	102	107	113	110	102	94	83	73	63
10000	67	72	75	75	77	79	81	86	89	94	100	106	111	109	100	91	79	69	59
OVERALL	110	112	114	113	114	114	114	116	118	119	124	129	134	134	131	128	121	111	101

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
FULL AUGMENTATION, A/B
89% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN Hg
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-C01
RUN 04
AIRCRAFT CODE 038
OPERATION CODE 01001
PROFILE VERSION A
13 APR 76
PAGE 04

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	118.8	121.4	123.7	123.5	124.2	124.8	125.6	127.9	130.1	132.3	135.8	140.0	144.9	143.2	139.3	134.9	127.5	117.5	107.5
250	116.7	119.3	121.5	121.3	122.0	122.6	123.4	125.7	127.9	130.0	133.6	137.7	142.6	141.0	137.2	132.8	125.4	115.4	105.4
315	114.5	117.2	119.4	119.1	119.8	120.4	121.2	123.5	125.6	127.8	131.3	135.5	140.3	138.8	135.0	130.7	123.3	113.3	103.2
400	112.4	115.0	117.2	116.8	117.5	118.1	118.9	121.2	123.3	125.4	128.9	133.2	138.0	136.6	132.8	128.5	121.1	111.1	101.0
500	110.1	112.7	114.9	114.5	115.1	115.7	116.5	118.8	120.9	123.0	126.5	130.7	135.7	134.3	130.5	126.2	118.9	108.8	98.7
630	107.6	110.4	112.5	112.2	112.7	113.2	114.0	116.3	118.4	120.5	123.9	128.3	133.2	131.9	128.1	123.9	116.4	106.4	96.2
800	105.2	107.9	110.1	109.7	110.1	110.6	111.4	113.7	115.8	117.8	121.2	125.8	130.7	129.4	125.7	121.4	113.8	103.8	93.5
1000	102.6	105.4	107.5	107.2	107.5	107.9	108.7	110.9	113.0	115.0	118.4	123.1	128.1	126.7	123.1	118.9	111.2	101.1	90.7
1250	99.9	102.7	104.8	104.4	104.7	105.0	105.7	107.9	110.0	112.0	115.4	120.4	125.3	123.8	120.4	116.0	108.4	98.3	87.9
1600	97.0	99.8	101.9	101.6	101.8	102.1	102.4	104.8	106.7	108.7	112.5	117.5	122.3	120.9	117.5	113.0	105.5	95.3	84.9
2000	93.9	96.8	98.8	98.5	98.7	99.0	99.3	101.6	103.5	105.1	109.4	114.4	119.3	117.8	114.5	110.0	102.5	92.2	81.7
2500	90.5	93.2	95.4	95.1	95.3	95.3	95.6	97.8	100.0	101.3	105.8	110.6	115.4	114.0	110.7	106.2	98.6	88.2	77.8
3150	86.7	89.4	91.8	91.5	91.4	91.4	91.6	93.8	96.0	97.3	101.8	106.5	111.4	109.8	106.5	102.0	94.3	83.8	73.4
4000	82.4	85.1	87.6	87.2	87.0	87.1	87.2	89.5	91.6	92.8	97.5	102.1	106.9	105.3	102.1	97.5	89.3	78.9	68.4
5000	77.7	80.5	82.9	82.6	82.4	82.4	82.5	84.7	86.9	88.0	92.8	97.3	102.2	100.6	97.3	92.7	84.5	74.1	63.4
6300	72.8	75.6	78.0	77.7	77.5	77.4	77.5	79.8	82.0	83.0	87.9	92.4	97.3	95.6	92.3	87.7	79.4	69.0	58.1
8000	68.8	71.6	74.0	73.7	73.4	73.3	73.3	75.6	77.8	78.9	83.8	88.5	93.4	91.9	88.7	84.1	75.7	65.1	54.0
10000	64.5	67.3	69.7	69.3	69.2	68.9	69.1	71.2	73.6	74.6	79.6	84.4	89.4	87.9	84.8	80.2	71.7	60.9	49.3
12500	59.9	62.7	64.9	64.5	64.6	64.3	64.4	66.5	68.9	70.0	75.1	80.0	85.1	83.6	80.6	76.1	67.4	56.3	43.9
16000	54.8	57.6	59.5	59.1	59.5	59.1	59.3	61.4	63.9	65.0	70.1	75.2	80.4	79.1	76.1	71.6	62.7	51.1	37.6
20000	49.2	52.1	53.6	53.4	53.9	53.4	53.6	55.8	58.3	59.4	64.6	70.0	75.3	74.1	71.2	66.6	57.5	45.2	31.0
25000	42.2	45.4	46.9	46.7	47.4	46.7	47.0	49.5	52.0	53.2	58.6	64.1	69.6	68.6	65.7	61.2	51.8	38.3	20.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
FULL AUGMENTATION, A/B
89% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 04
AIRCRAFT CODE 038
OPERATION CODE 01001
PROFILE VERSION A
13 APR 76
PAGE E4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	118.8	121.4	123.7	123.5	124.2	124.8	125.6	127.9	130.1	132.3	135.8	140.0	144.9	143.2	139.3	134.9	127.5	117.5	107.5
250	116.7	119.3	121.5	121.3	122.0	122.6	123.4	125.7	127.9	130.0	133.6	137.7	142.6	141.0	137.2	132.8	125.4	115.4	105.4
315	114.5	117.2	119.4	119.1	119.8	120.4	121.2	123.5	125.6	127.8	131.3	135.5	140.3	138.8	135.0	130.7	123.3	113.3	103.2
400	112.4	115.0	117.2	116.8	117.5	118.1	118.9	121.2	123.3	125.4	128.9	133.2	138.0	136.6	132.8	128.5	121.1	111.1	101.0
500	110.1	112.7	114.9	114.5	115.1	115.7	116.5	118.8	120.9	123.0	126.5	130.7	135.7	134.3	130.5	126.2	118.9	108.8	98.7
630	107.6	110.4	112.5	112.2	112.7	113.2	114.0	116.3	118.4	120.5	123.9	128.3	133.2	131.9	128.1	123.9	116.4	106.4	96.2
800	105.2	107.9	110.1	109.7	110.1	110.6	111.4	113.7	115.8	117.8	121.2	125.8	130.7	129.4	125.7	121.4	113.8	103.8	93.5
1000	102.6	105.4	107.5	107.2	107.5	107.9	108.7	110.9	113.0	115.0	118.4	123.1	128.1	126.7	123.1	118.9	111.2	101.1	90.7
1250	99.9	102.7	104.8	104.4	104.7	105.0	105.7	107.9	110.0	112.0	115.4	120.4	125.3	123.8	120.4	116.0	108.4	98.3	87.9
1600	97.0	99.8	101.9	101.6	101.8	102.1	102.4	104.8	106.7	108.7	112.5	117.3	122.3	120.9	117.5	113.0	105.5	95.3	84.9
2000	93.9	96.8	98.8	98.5	98.7	99.0	99.3	101.6	103.5	105.1	109.4	114.4	119.3	117.8	114.5	110.0	102.5	92.2	81.7
2500	90.5	93.2	95.4	95.1	95.3	95.3	95.6	97.8	100.0	101.3	105.8	110.6	115.4	114.0	110.7	106.2	98.6	88.2	77.8
3150	86.7	89.4	91.5	91.5	91.4	91.4	91.6	93.8	96.0	97.3	101.8	106.5	111.4	109.8	106.5	102.0	94.3	83.8	73.4
4000	82.4	85.1	87.6	87.2	87.0	87.1	87.2	89.5	91.6	92.8	97.5	102.1	106.9	105.3	102.1	97.5	89.3	78.9	68.4
5000	77.7	80.5	82.9	82.6	82.4	82.4	82.5	84.7	86.9	88.0	92.8	97.3	102.2	100.6	97.3	92.7	84.5	74.1	63.4
6300	72.8	75.6	78.0	77.7	77.5	77.4	77.5	79.8	82.0	83.0	87.9	92.4	97.3	95.6	92.3	87.7	79.4	69.0	58.1
8000	68.8	71.6	74.0	73.7	73.4	73.3	73.3	75.6	77.8	78.9	83.8	88.5	93.4	91.9	88.7	84.1	75.7	65.1	54.0
10000	64.5	67.3	69.7	69.3	69.2	68.9	69.1	71.2	73.6	74.6	79.6	84.4	89.4	87.9	84.8	80.2	71.7	60.9	49.3
12500	59.9	62.7	64.9	64.5	64.6	64.3	64.4	66.5	68.9	70.0	75.1	80.0	85.1	83.6	80.6	76.1	67.4	56.3	43.9
16000	54.8	57.6	59.5	59.1	59.5	59.1	59.3	61.4	63.9	65.0	70.1	75.2	80.4	79.1	76.1	71.6	62.7	51.1	37.6
20000	49.2	52.1	53.6	53.4	53.9	53.4	53.6	55.8	58.3	59.4	64.6	70.0	75.3	74.1	71.2	66.6	57.5	45.2	31.0
25000	42.2	45.4	46.9	46.7	47.4	46.7	47.0	49.5	52.0	53.2	58.6	64.1	69.6	68.6	65.7	61.2	51.8	38.3	20.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 04
AIRCRAFT CODE 038
OPERATION CODE 01001
PROFILE VERSION A
13 APR 76
PAGE F4

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
FULL AUGMENTATION, A/B
89% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	106.8	109.5	112.1	111.8	111.8	112.1	112.3	114.6	116.9	118.3	122.6	126.9	131.4	129.4	125.5	121.1	113.6	103.6	93.6
250	104.7	107.4	110.0	109.7	109.7	110.0	110.2	112.5	114.7	116.2	120.5	124.7	129.3	127.2	123.4	119.0	111.5	101.5	91.5
315	102.6	105.3	107.9	107.6	107.6	107.8	108.0	110.4	112.6	114.0	118.3	122.6	127.1	125.1	121.3	117.0	109.4	99.4	89.4
400	100.5	103.2	105.7	105.5	105.4	105.7	105.9	108.2	110.4	111.7	116.2	120.4	124.9	122.9	119.2	114.9	107.3	97.3	87.3
500	98.3	101.0	103.6	103.3	103.2	103.5	103.6	106.0	108.1	109.5	113.9	118.2	122.7	120.7	117.0	112.7	105.1	95.1	85.1
630	96.1	98.8	101.3	101.1	101.0	101.2	101.4	103.7	105.8	107.1	111.6	115.9	120.4	118.4	114.7	110.4	102.8	92.8	82.8
800	93.8	96.5	99.1	98.8	98.7	98.9	99.0	101.3	103.5	104.7	109.3	113.5	118.1	116.0	112.4	108.1	100.4	90.4	80.4
1000	91.5	94.2	96.7	96.5	96.4	96.5	96.6	98.9	101.1	102.3	106.9	111.1	115.7	113.6	110.0	105.7	98.0	88.0	78.0
1250	89.0	91.8	94.3	94.1	93.9	94.0	94.1	96.4	98.6	99.7	104.4	108.6	113.1	111.1	107.5	103.1	95.4	85.4	75.4
1600	86.5	89.3	91.8	91.6	91.4	91.5	91.5	93.8	96.0	97.0	101.8	106.0	110.5	108.4	104.9	100.4	92.7	82.7	72.7
2000	83.8	86.7	89.2	88.9	88.7	88.8	88.7	91.1	93.3	94.2	99.1	103.4	107.8	105.7	102.2	97.7	89.9	79.9	69.9
2500	80.9	83.8	86.3	86.1	85.8	85.8	85.8	88.1	90.3	91.1	96.2	100.4	104.8	102.6	99.1	94.5	86.7	76.7	66.7
3150	77.8	80.7	83.2	82.9	82.6	82.6	82.5	84.8	87.1	87.8	93.0	97.1	101.5	99.3	95.7	91.0	83.2	73.2	63.2
4000	74.3	77.1	79.7	79.4	79.1	79.0	78.9	81.2	83.5	84.1	89.4	93.4	97.8	95.6	91.9	87.1	79.3	69.3	59.3
5000	70.2	73.1	75.7	75.5	75.1	75.0	74.8	77.2	79.5	80.0	85.4	89.3	93.7	91.4	87.6	82.8	75.1	65.1	55.1
6300	65.9	68.8	71.4	71.2	70.8	70.7	70.4	72.8	75.2	75.6	81.1	84.9	89.3	87.0	83.2	78.4	70.6	60.6	50.6
8000	62.1	65.0	67.5	67.2	66.9	66.7	66.4	68.8	71.2	71.6	77.2	81.1	85.5	83.2	79.6	74.8	66.7	56.7	46.7
10000	57.9	60.8	63.2	62.9	62.6	62.3	62.1	64.5	66.9	67.3	72.9	76.9	81.3	79.1	75.6	70.9	62.6	52.6	42.6
12500	53.3	56.3	58.5	58.2	57.9	57.6	57.4	59.7	62.1	62.6	68.2	72.4	76.8	74.7	71.4	66.7	58.3	48.3	38.3
16000	48.3	51.2	53.3	53.0	52.8	52.5	52.2	54.6	56.9	57.6	63.1	67.4	71.9	69.9	66.7	62.2	53.6	43.6	33.6
20000	42.7	45.7	47.5	47.3	47.2	46.9	46.7	48.9	51.3	52.0	57.4	62.0	66.5	64.7	61.7	57.3	48.7	38.7	28.7
25000	36.8	39.6	41.3	41.0	41.1	40.7	40.6	42.8	45.1	46.0	51.2	56.1	60.7	59.2	56.3	52.1	43.7	33.7	23.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
FULL AUGMENTATION, A/B
89% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 04
AIRCRAFT CODE 038
OPERATION CODE 01001
PROFILE VERSION A
13 APR 76
PAGE 64

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	106.8	109.5	112.1	111.8	111.8	112.1	112.3	114.6	116.9	118.3	122.6	126.9	131.4	129.4	125.5	121.1	113.6	103.6	93.6
250	104.7	107.4	110.0	109.7	109.7	110.0	110.2	112.5	114.7	116.2	120.5	124.7	129.3	127.2	123.4	119.0	111.5	101.5	91.5
315	102.6	105.3	107.9	107.6	107.6	107.8	108.0	110.4	112.6	114.0	118.3	122.6	127.1	125.1	121.3	117.0	109.4	99.4	89.4
400	100.5	103.2	105.7	105.5	105.4	105.7	105.9	108.2	110.4	111.7	116.2	120.4	124.9	122.9	119.2	114.9	107.3	97.3	87.3
500	98.3	101.0	103.6	103.3	103.2	103.5	103.6	106.0	108.1	109.5	113.9	118.2	122.7	120.7	117.0	112.7	105.1	95.1	85.1
630	96.1	98.8	101.3	101.1	101.0	101.2	101.4	103.7	105.8	107.1	111.6	115.9	120.4	118.4	114.7	110.4	102.9	92.9	82.8
800	93.8	96.5	99.1	98.8	98.7	98.9	99.0	101.3	103.5	104.7	109.3	113.5	118.1	116.0	112.4	108.1	100.4	90.4	80.4
1000	91.5	94.2	96.7	96.5	96.4	96.5	96.6	98.9	101.1	102.3	106.9	111.1	115.7	113.6	110.0	105.7	98.0	88.0	78.0
1250	89.0	91.8	94.3	94.1	93.9	94.0	94.1	96.4	98.6	99.7	104.4	108.6	113.1	111.1	107.5	103.1	95.4	85.4	75.4
1600	86.5	89.3	91.8	91.6	91.4	91.5	91.5	93.8	96.0	97.0	101.8	106.0	110.5	108.4	104.9	100.4	92.7	82.7	72.7
2000	83.8	86.7	89.2	88.9	88.7	88.8	88.7	91.1	93.3	94.2	99.1	103.4	107.8	105.7	102.2	97.7	89.9	79.9	69.9
2500	80.9	83.8	86.3	86.1	85.8	85.8	85.8	88.1	90.3	91.1	96.2	100.4	104.8	102.6	99.1	94.5	86.7	76.7	66.7
3150	77.8	80.7	83.2	82.9	82.6	82.6	82.5	84.8	87.1	87.8	93.0	97.1	101.5	99.3	95.7	91.0	83.2	73.2	63.2
4000	74.3	77.1	79.7	79.4	79.1	79.0	78.9	81.2	83.5	84.1	89.4	93.4	97.8	95.6	91.9	87.1	79.3	69.3	59.3
5000	70.2	73.1	75.7	75.5	75.1	75.0	74.8	77.2	79.5	80.0	85.4	89.3	93.7	91.4	87.6	82.8	75.1	65.1	55.1
6300	65.9	68.8	71.4	71.2	70.8	70.7	70.4	72.8	75.2	75.6	81.1	84.9	89.3	87.0	83.1	78.4	70.6	60.6	50.6
8000	62.1	65.0	67.5	67.2	66.9	66.7	66.4	68.8	71.2	71.6	77.2	81.1	85.5	83.2	79.6	74.8	66.7	56.7	46.7
10000	57.9	60.8	63.2	62.9	62.6	62.3	62.1	64.5	66.9	67.3	72.9	76.9	81.3	79.1	75.6	70.9	62.6	52.6	42.6
12500	53.3	56.3	58.5	58.2	57.9	57.8	57.4	59.7	62.1	62.6	68.2	72.4	76.8	74.7	71.4	66.7	58.3	48.3	38.3
16000	48.3	51.2	53.3	53.0	52.8	52.5	52.2	54.6	56.9	57.6	63.1	67.4	71.9	69.9	66.7	62.2	53.6	43.6	33.6
20000	42.7	45.7	47.5	47.3	47.2	46.9	46.7	48.9	51.3	52.0	57.4	62.0	66.5	64.7	61.7	57.3	48.7	38.7	28.7
25000	36.8	39.6	41.3	41.0	41.1	40.7	40.6	42.8	45.1	46.0	51.2	56.1	60.7	59.2	56.3	52.1	43.7	33.7	23.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

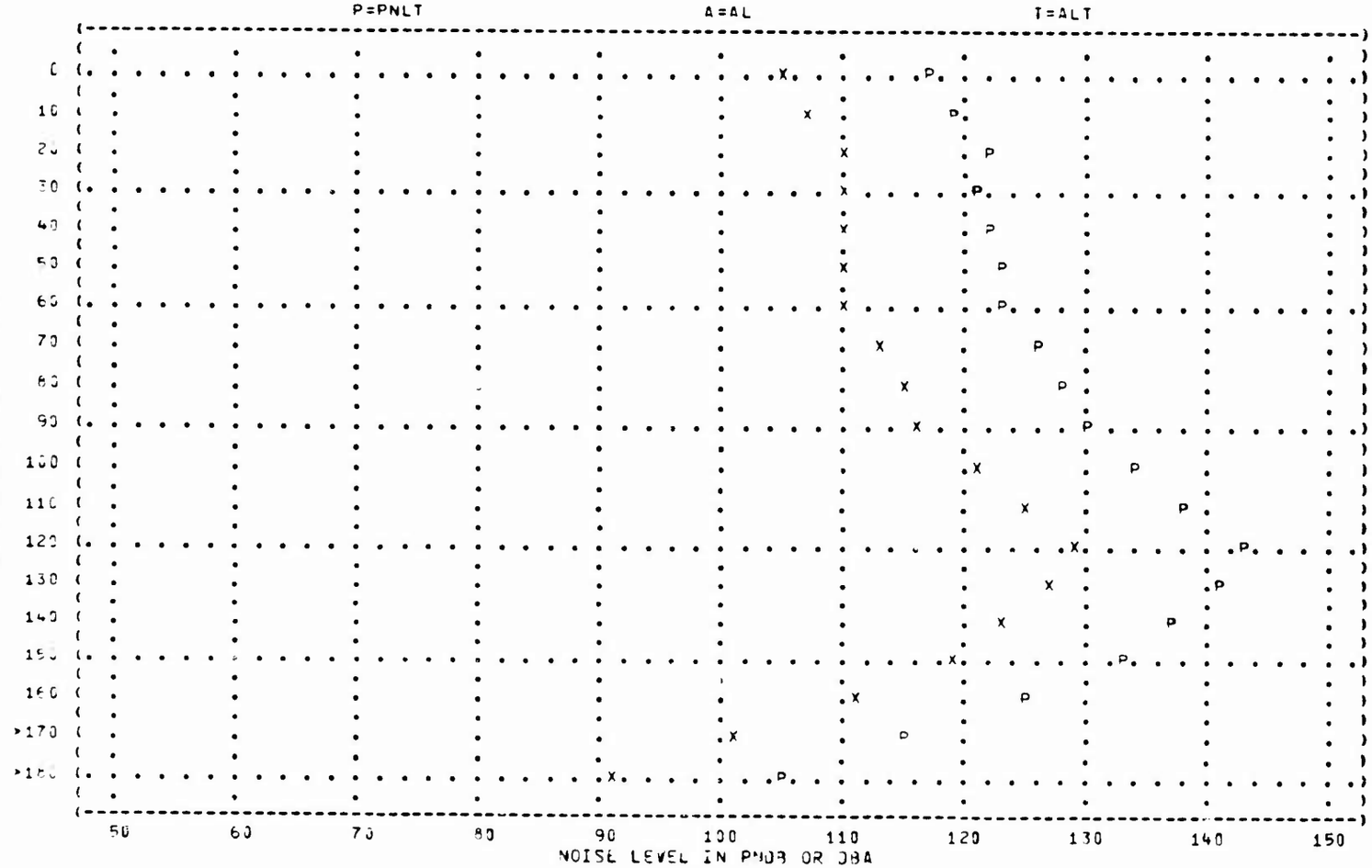
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT
ENG. F100-PW-100(2)
GROUND RUNUP

OPERATION:
FULL AUGMENTATION, A/B
89% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-038-001
RUN 04
AIRCRAFT CODE 038
OPERATION CODE 01001
PROFILE VERSION A
13 APR 76
PAGE 34



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF F-104G AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

F-104G AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 045
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING	PAGE
AFTERBURNER 100% RPM	486-494
TAKEOFF 100% RPM	495-503
CRUISE 92% RPM	504-512
APPROACH 95% RPM	513-521
INTERMEDIATE 92% RPM	522-530

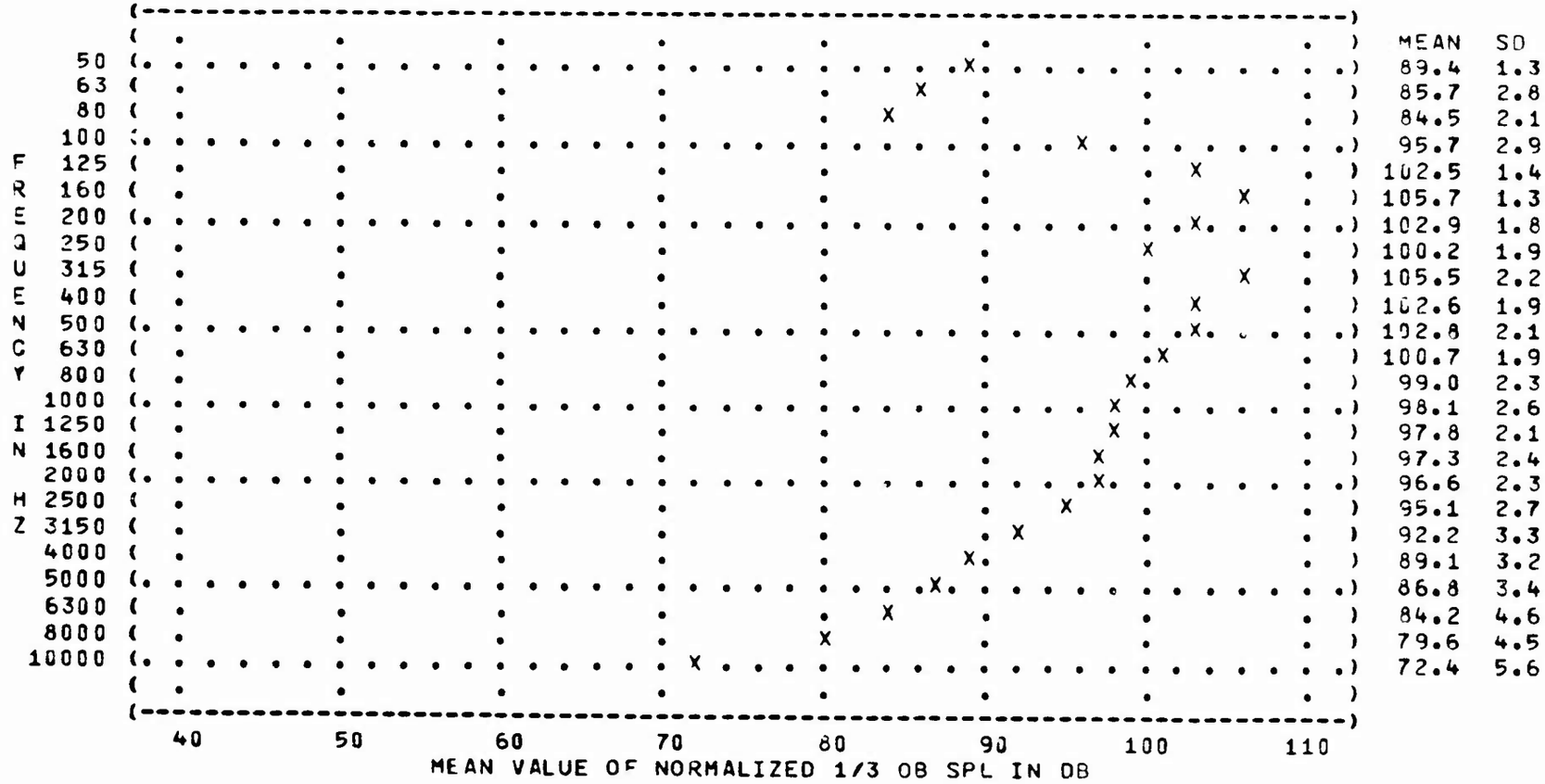
FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
- AIR-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
- GROUND-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

23 JAN 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF F-104G AIRCRAFT



F-104G AFTERBURNER POWER 100 % RPM

AIRSPEED = 240 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-045-101-230176

PNLT = 121.8 PNDB
PNL = 121.1 PNDB
ALT = 109.5 DBA
AL = 108.9 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-104G

OPERATION:
AFTERBURNER POWER
100 % RPM

AIRSPEED = 240 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

DELTA N = 0.0 DB

A/C CODE: 045
OPS CODE: 101
PROFILE VER: A
23 JAN 76
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	104	100	99	110	117	120	117	115	120	117	118	116	114	114	114	114	114	113	111	111	110	111	112	113
250	102	98	97	108	115	118	115	113	118	115	115	114	112	111	111	111	111	111	109	108	107	108	108	109
315	100	96	95	106	113	116	113	111	116	113	113	111	110	109	109	109	109	108	107	105	104	105	105	105
400	98	94	93	104	111	114	111	109	114	111	111	109	108	107	107	107	107	106	104	103	101	102	101	100
500	95	92	91	102	109	112	109	106	112	109	109	107	106	105	105	105	104	104	101	100	98	98	97	95
630	93	90	89	100	107	110	107	104	110	107	107	105	104	103	103	102	102	101	99	97	95	94	92	89
800	91	88	87	98	105	108	105	102	108	105	105	103	101	100	100	100	99	98	96	93	91	89	86	81
1000	89	86	84	96	103	106	103	100	106<	103	103	101	99	98	98	97	97	95	92	89	87	84	80	72
1250	87	84	82	94	100	104	101	98	103	100	101	98	97	96	95	95	94	92	88	85	82	78	72	62
1600	85	82	80	92	98	102	99	96	101	98	98	96	94	93	92	92	90	88	84	80	76	71	62	49
2000	83	80	78	90	96	99	97	94	99	96	96	94	92	90	90	88	87	84	80	74	70	63	51	34
2500	81	78	76	87	94	97	94	92	97	94	93	91	89	87	86	85	83	80	74	67	62	53	38	15
3150	79	75	74	85	92	95	92	89	94	91	91	88	86	84	83	81	79	75	68	59	53	41	21	
4000	77	73	72	83	90	93	90	87	92	88	88	85	83	81	79	77	74	69	60	49	42	26	0	
5000	75	71	70	81	88	91	87	84	89	86	85	82	79	77	75	72	68	61	52	38	29	8		
6300	73	69	68	79	85	88	85	82	87	83	82	79	75	73	70	66	61	53	41	24	13			
8000	71	67	66	77	83	86	82	79	84	80	79	75	71	68	64	59	53	43	28	7				
10000	69	65	63	74	81	83	80	76	81	76	75	71	66	62	58	51	43	31	13					
12500	66	62	61	72	78	81	77	73	77	72	71	66	61	55	50	42	32	16						
16000	64	60	58	69	75	78	74	70	73	68	66	60	54	48	40	30	18							
20000	62	58	56	67	72	74	70	66	69	63	60	54	46	38	29	16	0							
25000	59	55	53	64	69	71	66	62	64	58	53	46	37	27	16									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-104G

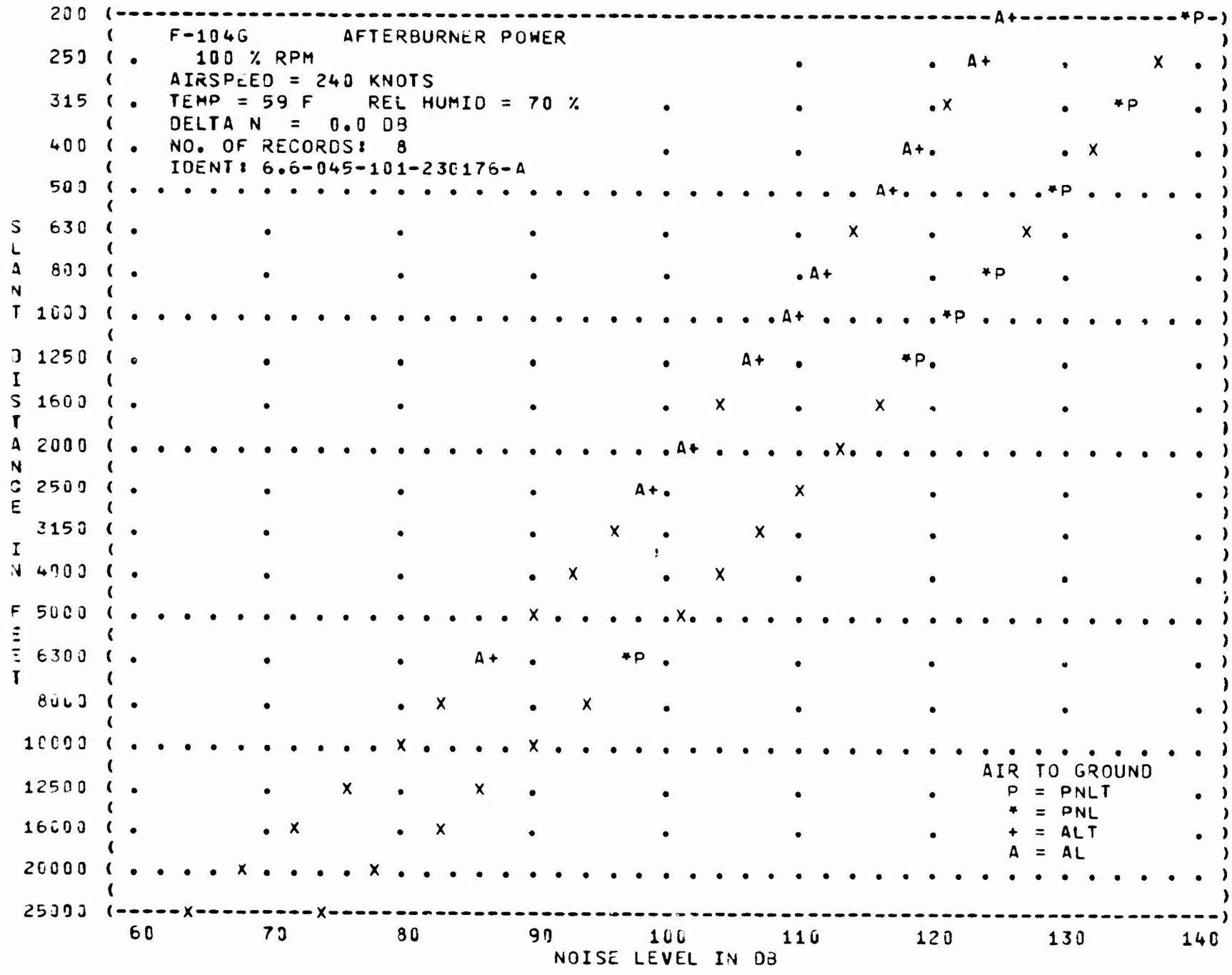
OPERATION:
AFTERBURNER POWER
100 % RPM
AIRSPEED = 240 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 045
OPS CODE: 101
PROFILE VER: A
23 JAN 76
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	125.3	125.9	138.9	139.5	122.9	123.7	127.5
250	123.0	123.7	136.6	137.3	121.6	122.5	126.2
315	120.7	121.4	134.2	134.9	120.3	121.2	124.8
400	118.4	119.1	131.8	132.5	119.0	119.9	123.4
500	116.1	116.8	129.3	130.0	117.7	118.5	121.9
630	113.7	114.4	126.7	127.4	116.3	117.2	120.3
800	111.3	112.0	123.9	124.6	114.9	115.8	118.6
1000	108.9	109.5	121.1	121.8	113.5	114.3	116.7
1250	106.3	107.0	118.3	119.0	111.9	112.8	114.9
1600	103.8	104.5	115.5	116.2	110.4	111.2	113.2
2000	101.1	101.8	112.7	113.4	108.7	109.6	111.3
2500	98.4	99.1	109.8	110.5	107.0	107.8	109.4
3150	95.6	96.2	106.8	107.5	105.2	106.0	107.4
4000	92.6	93.2	103.7	104.3	103.3	103.9	105.2
5000	89.6	90.0	100.6	101.0	101.2	101.7	102.8
6300	86.5	86.7	97.3	97.5	99.1	99.4	100.4
8000	83.2	83.3	93.8	94.0	96.8	96.9	97.8
10000	79.7	79.7	90.2	90.2	94.3	94.3	95.0
12500	76.0	76.0	86.4	86.4	91.6	91.6	92.2
16000	72.1	72.1	82.5	82.5	88.8	88.8	89.3
20000	68.0	68.0	78.4	78.4	85.6	85.6	86.2
25000	63.6	63.6	73.9	73.9	82.2	82.2	82.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-104G AFTERBURNER POWER
100 % RPM
AIRSPEED = 240 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-045-101-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

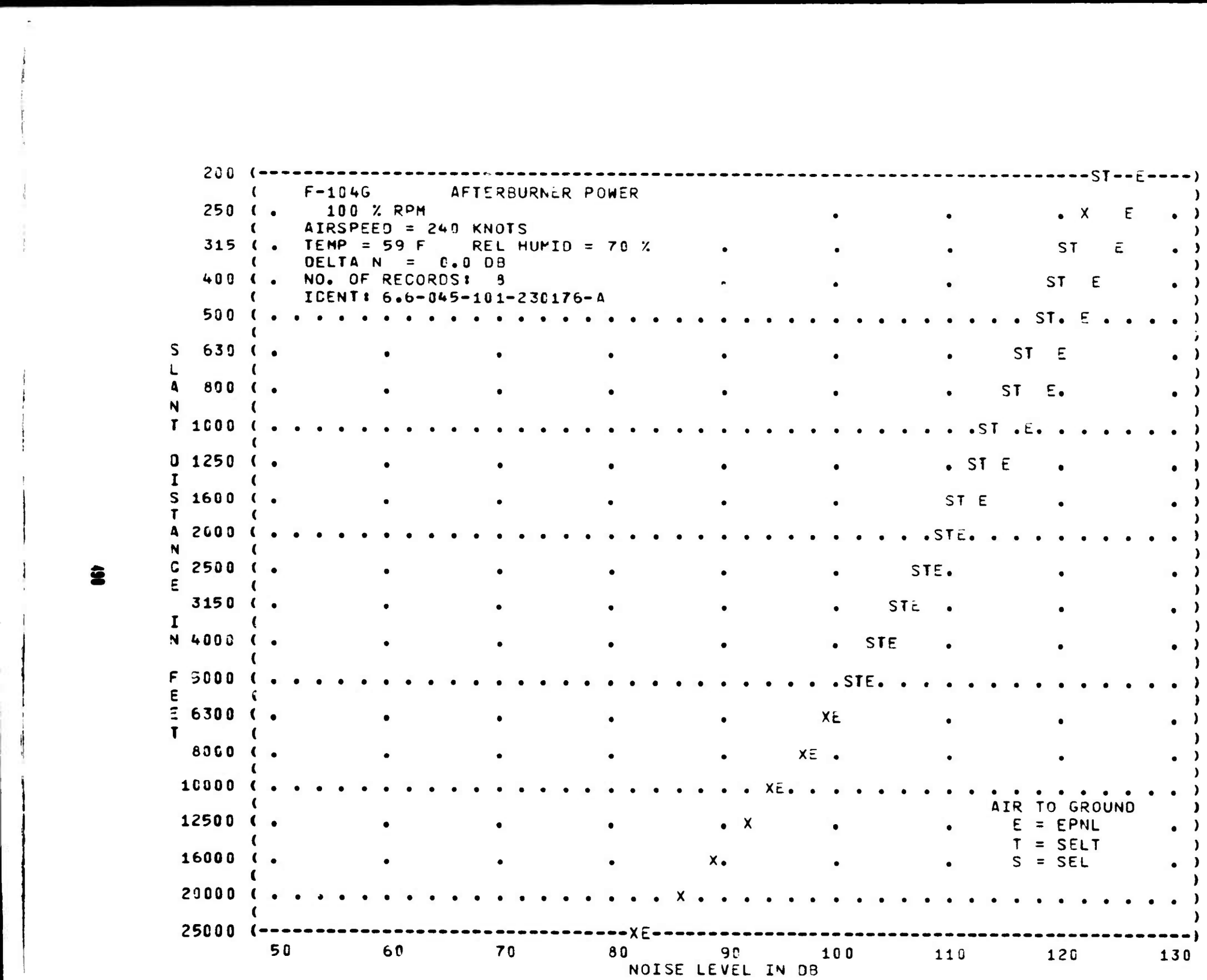

F-104G AFTERBURNER POWER
100 % RPM
AIRSPEED = 240 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
ICENT: 6.6-045-101-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-104G

OPERATION:
AFTERBURNER POWER
100 % RPM
AIRSPEED = 240 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
A/C CODE: 045
OPS CODE: 101
PROFILE VER: A
23 JAN 76
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	99	95	94	105	112	115	112	110	115	112	113	111	109	109	109	109	109	108	106	106	105	106	107	108
250	97	93	92	103	110	113	110	108	113	110	110	109	107	106	106	106	106	106	104	103	102	103	103	104
315	95	91	90	101	108	111	108	106	111	108	108	106	105	104	104	104	104	103	102	100	99	100	100	100
400	93	89	88	99	106	109	106	104	109	106	106	104	103	102	102	102	102	101	99	98	96	97	96	95
500	90	87	86	97	104	106	103	101	107	104	104	102	101	100	100	100	99	99	96	95	93	93	92	90
630	88	85	84	95	101	104	101	99	105	102	102	100	99	98	98	97	97	96	94	92	90	89	87	84
800	86	83	82	92	98	101	98	96	103	100	100	98	96	95	95	95	94	93	91	88	86	84	81	76
1000	84	81	79	90	95	98	95	93	100<	98	98	96	94	93	93	92	92	90	87	84	82	79	75	67
1250	82	79	76	86	92	95	92	90	97	95	96	93	92	91	90	90	89	87	83	80	77	73	67	57
1600	80	75	73	83	89	91	88	86	94	93	93	91	89	88	87	87	85	83	79	75	71	66	57	44
2000	77	72	69	79	85	87	85	82	90	91	91	89	87	85	85	83	82	79	75	69	65	58	46	29
2500	74	68	65	75	81	83	80	78	86	87	88	86	84	82	81	80	78	75	69	62	57	48	33	10
3150	70	64	61	70	76	78	75	73	82	83	85	83	81	79	78	76	74	70	63	54	48	36	16	
4000	65	58	55	64	70	72	69	67	77	78	81	80	78	76	74	72	69	64	55	44	37	21		
5000	60	54	50	60	65	68	64	62	71	72	77	75	74	72	70	67	63	56	47	33	24	3		
6300	55	49	46	55	60	63	60	57	65	67	72	71	69	68	65	61	56	48	36	19	8			
8000	53	47	44	53	58	60	57	54	62	64	69	67	65	63	59	54	48	38	23	2				
10000	51	45	41	50	56	58	54	51	59	60	65	63	60	57	53	46	38	26	8					
12500	48	42	39	48	53	55	51	48	55	56	61	58	55	50	45	37	27	11						
16000	46	40	36	45	50	52	48	45	51	52	56	52	48	43	35	25	13							
20000	44	38	34	43	47	49	45	41	47	47	50	46	40	33	24	11								
25000	41	35	31	40	44	46	41	37	42	42	43	38	31	22	11									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 045
OPS CODE: 101
PROFILE VER: A
23 JAN 76
PAGE M1

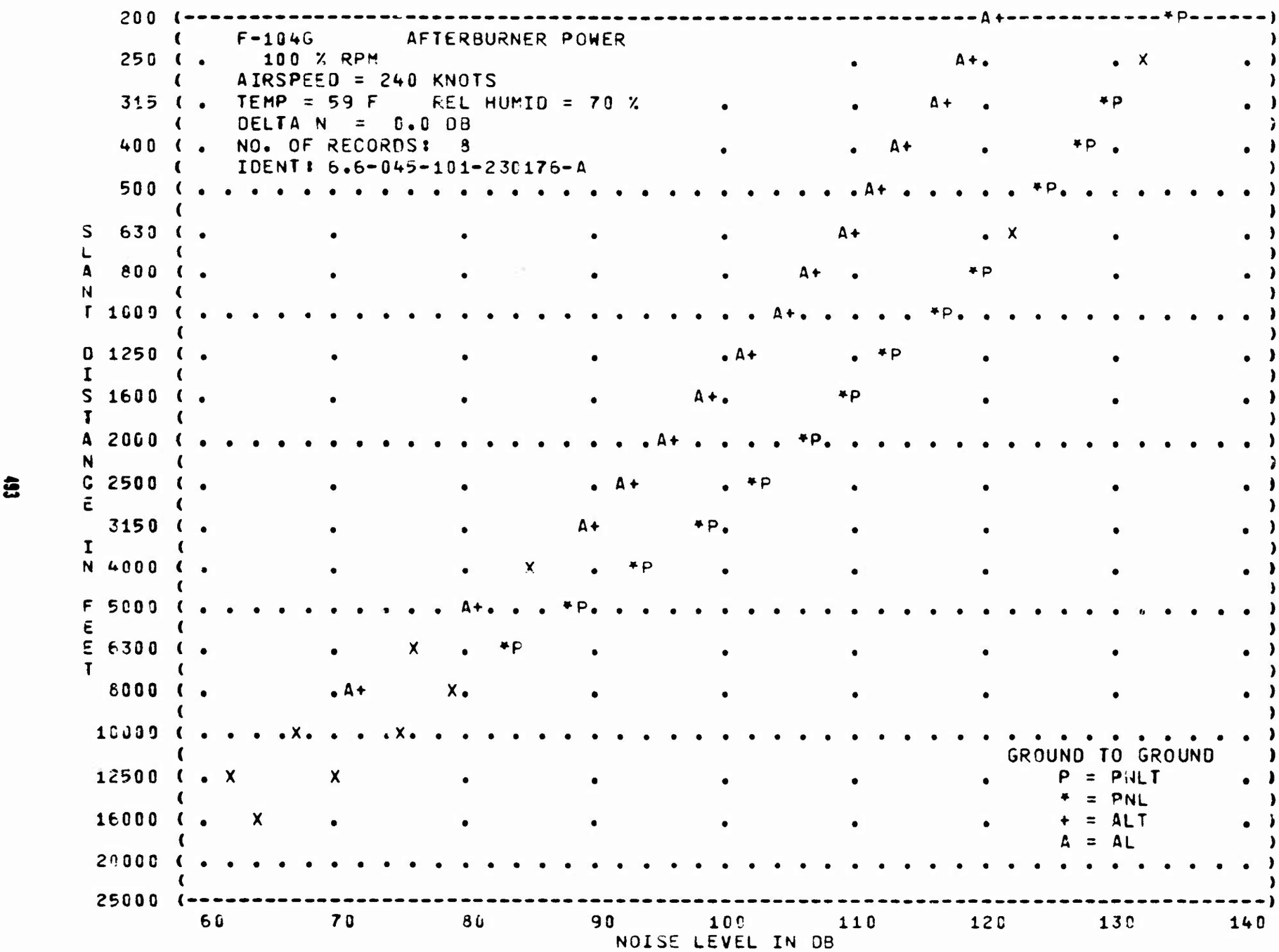
AIRCRAFT: F-104G

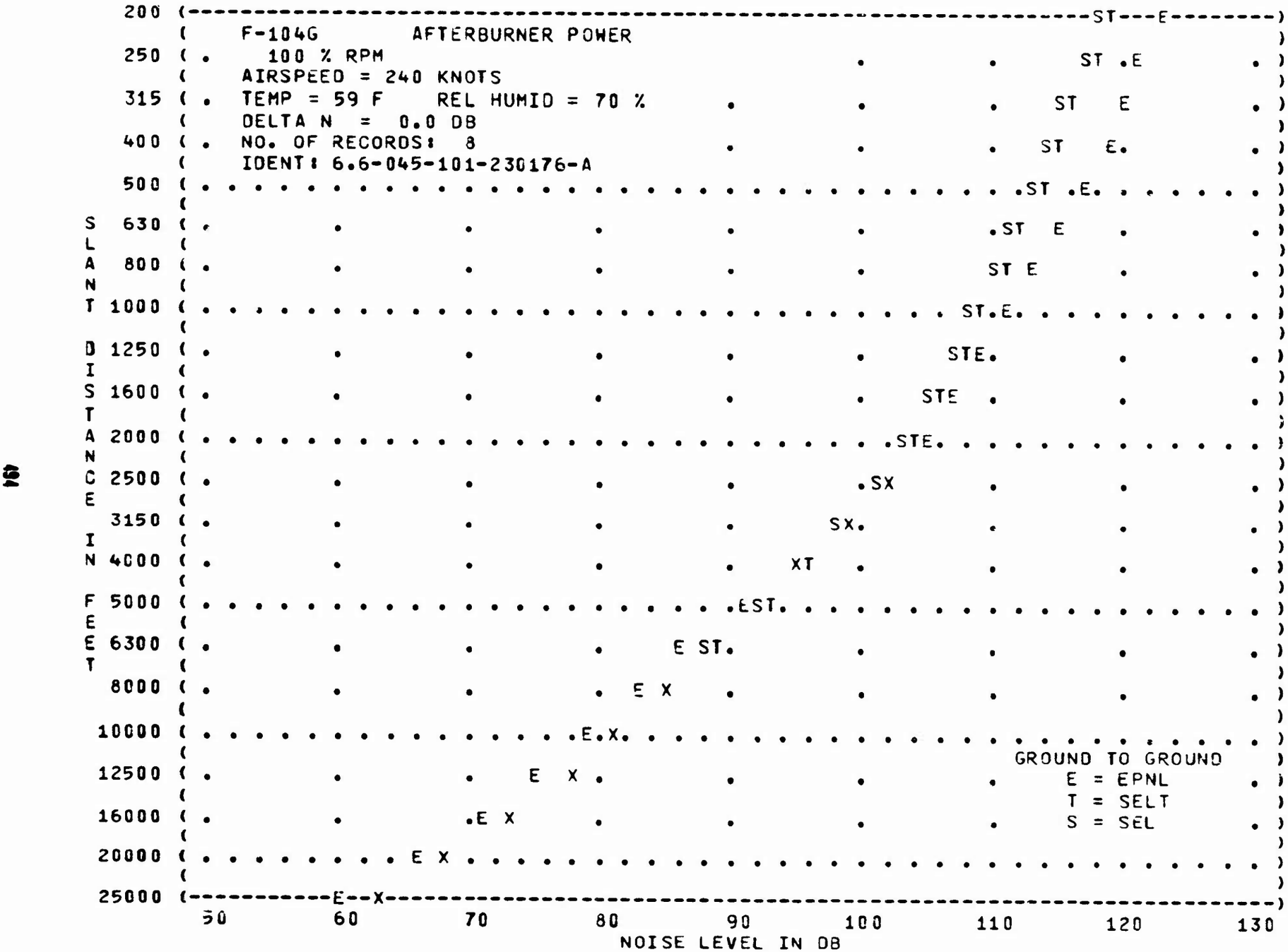
OPERATION:
AFTERBURNER POWER
100 % RPM
AIRSPEED = 240 KNOTS

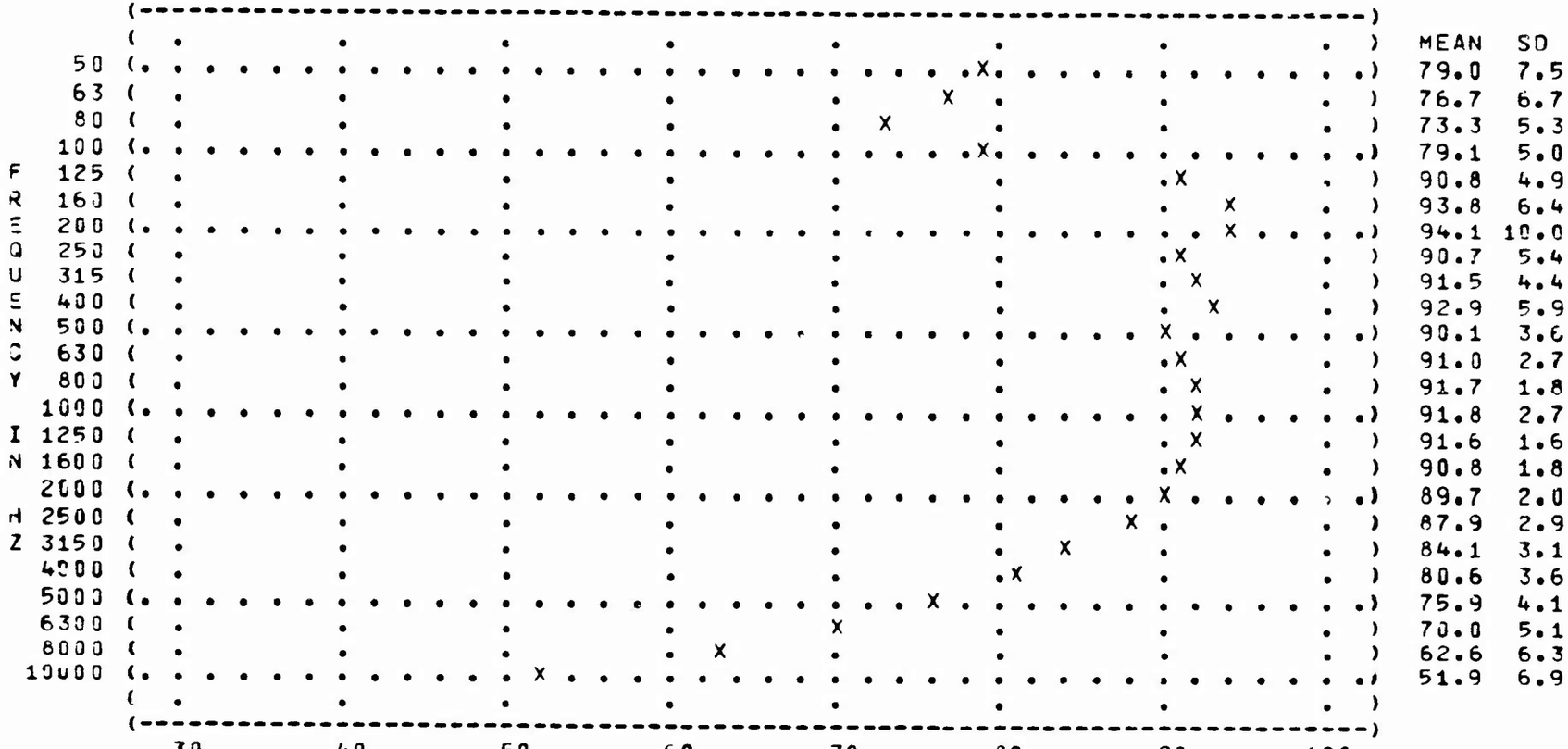
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	120.3	121.1	133.9	134.7	117.9	118.9	122.6
250	118.0	118.9	131.6	132.4	116.6	117.6	121.4
315	115.7	116.6	129.2	130.1	115.3	116.3	120.0
400	113.4	114.3	126.8	127.6	114.0	115.0	118.6
500	111.1	111.9	124.2	125.1	112.7	113.7	117.0
630	108.7	109.5	121.5	122.4	111.3	112.3	115.3
800	106.2	107.1	118.7	119.6	109.8	110.8	113.5
1000	103.7	104.6	115.7	116.6	108.3	109.3	111.5
1250	101.0	101.9	112.5	113.3	106.7	107.7	109.3
1600	98.3	99.1	109.1	110.0	104.9	105.9	106.9
2000	95.4	96.3	105.8	106.7	103.0	104.0	104.6
2500	92.2	93.1	102.2	103.1	100.8	101.9	102.0
3150	88.7	89.6	98.1	98.9	98.3	99.3	98.9
4000	84.8	85.5	93.5	94.1	95.4	96.2	95.0
5000	80.4	80.9	88.5	89.0	92.0	92.6	90.8
6300	75.7	76.0	83.2	83.6	88.3	88.7	86.4
8000	71.4	71.6	79.0	79.2	85.0	85.2	83.0
10000	66.9	66.9	74.5	74.5	81.5	81.5	79.3
12500	62.0	62.0	69.6	69.6	77.6	77.6	75.3
16000	56.6	56.6	64.2	64.2	73.2	73.2	71.0
20000	50.8	50.8	58.3	58.3	68.4	68.4	66.0
25000	44.5	44.5	51.5	51.5	63.1	63.1	60.3

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-104G AFTERBURNER POWER
100 % RPM
AIRSPEED = 240 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-045-101-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-104G AFTERBURNER POWER
100 % RPM
AIRSPEED = 240 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-045-101-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-104G TAKEOFF POWER 100 % RPM

AIRSPEED = 239 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 4

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-045-103-230176

PNLT = 113.0 PNDB
PNL = 112.2 PNDB
ALT = 101.2 DBA
AL = 100.5 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 045
OPS CODE: 103
PROFILE VER: A
23 JAN 76
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AIRCRAFT: F-104G

OPERATION: TAKEOFF POWER, 100 % RPM, AIRSPEED = 240 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	93	91	87	93	105	108	108	105	106	107	105	106	107	107	107	107	107	106	104	102	99	97	95	93
250	91	89	85	91	103	106	106	103	104	105	103	104	105	105	105	105	105	104	101	100	96	94	92	89
315	89	87	83	89	101	104	104	101	102	103	101	102	103	103	103	103	102	101	99	97	94	91	88	85
400	87	85	81	87	99	102	102	99	100	101	99	100	101	101	101	101	100	99	96	94	91	88	85	80
500	85	83	79	85	97	100	100	97	98	99	97	98	98	99	99	98	98	96	94	91	88	84	80	75
630	83	81	77	83	95	98	98	95	96	97	94	95	96	97	96	96	95	94	91	88	84	80	75	68
800	81	79	75	81	93	96	96	93	94	95	92	93	94	94	94	93	93	91	88	85	80	75	69	61
1000	79	77	73	79	91<	94	94	91	92	93	90	91	92	92	92	91	90	88	84	81	76	70	63	52
1250	77	75	71	77	89	92	92	89	89	91	88	89	89	89	89	88	87	85	80	76	71	64	55	41
1600	75	73	69	75	87	90	90	86	87	88	86	86	87	87	86	85	83	81	76	71	65	57	45	28
2000	73	71	67	73	85	87	88	84	85	86	83	84	84	84	83	82	80	77	71	65	59	48	34	12
2500	71	69	65	71	82	85	86	82	83	84	81	81	81	81	80	78	76	72	66	58	51	38	20	
3150	69	66	63	69	80	83	83	80	80	81	78	79	79	78	77	74	71	67	59	50	42	26	2	
4000	67	64	61	67	78	81	81	77	78	79	75	76	75	74	73	70	66	61	52	40	30	10		
5000	65	62	59	64	76	79	79	75	75	76	72	72	72	70	68	65	60	54	43	28	17			
6300	62	60	57	62	74	76	76	72	73	73	69	69	68	66	63	59	53	45	32	14	0			
8000	60	58	54	60	71	74	74	70	70	70	66	65	64	61	57	52	45	35	19					
10000	58	56	52	57	69	71	71	67	66	66	62	61	59	55	51	44	35	23	3					
12500	56	53	50	55	66	68	68	64	63	62	58	56	53	49	43	34	24	8						
16000	54	51	47	52	63	66	65	60	59	58	53	50	46	41	33	22	9							
20000	51	49	45	50	61	62	61	56	55	53	47	43	38	31	22	8								
25000	49	46	42	47	57	59	57	52	50	47	40	35	28	20	8									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-104G

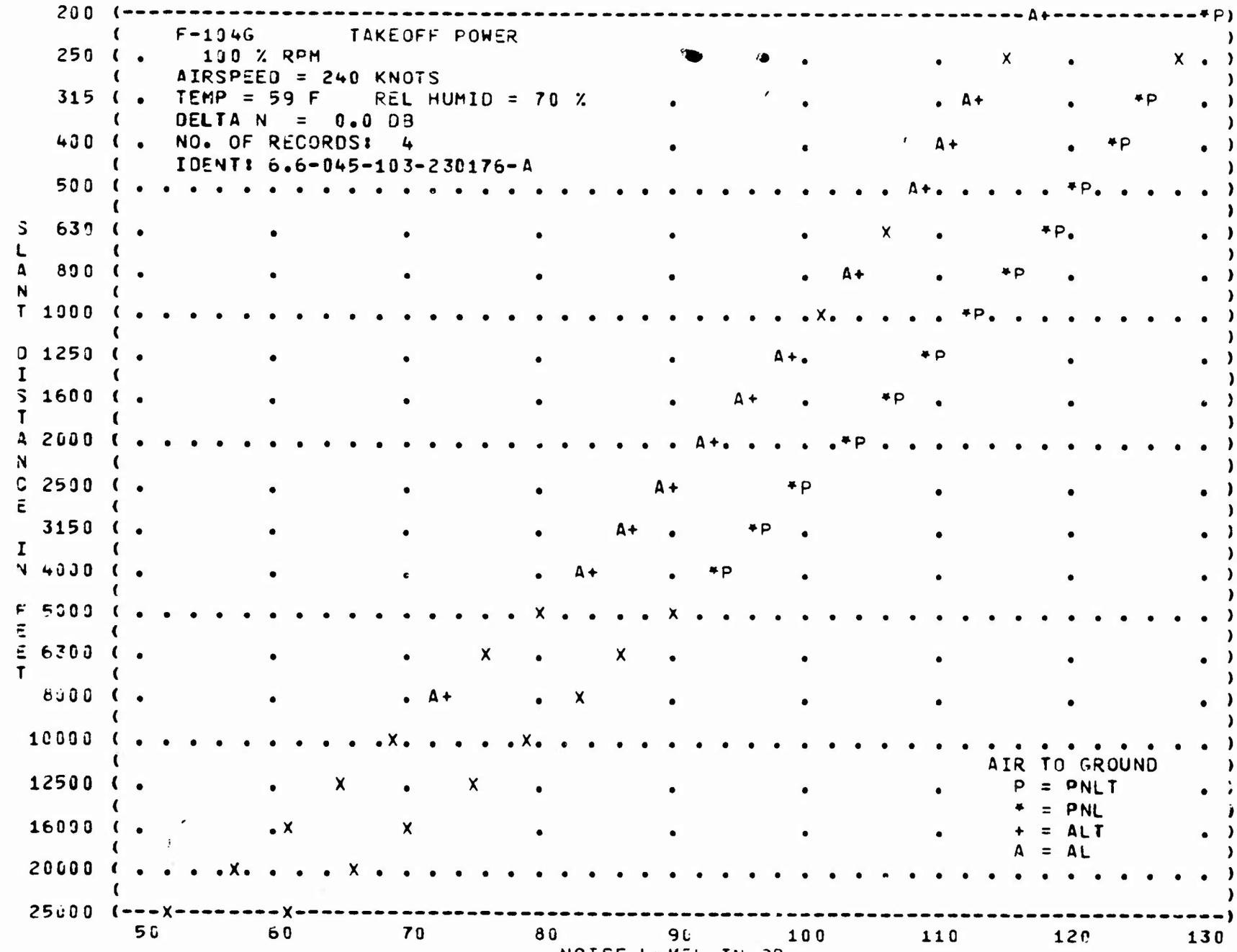
OPERATION:
TAKEOFF POWER
100 % RPM
AIRSPEED = 240 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 045
OPS CODE: 103
PROFILE VER: A
23 JAN 76
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	116.9	117.6	129.9	130.6	118.5	119.5	122.0
250	114.7	115.4	127.6	128.4	117.3	118.3	120.7
315	112.5	113.2	125.3	126.0	116.1	117.1	119.4
400	110.2	110.9	122.9	123.6	114.8	115.8	118.0
500	107.9	108.6	120.4	121.1	113.5	114.5	116.5
630	105.5	106.2	117.8	118.5	112.1	113.1	114.9
800	103.0	103.8	115.1	115.8	110.6	111.6	113.2
1000	100.5	101.2	112.2	113.0	109.1	110.1	111.3
1250	97.9	98.6	109.2	110.0	107.5	108.5	109.3
1600	95.2	95.9	106.2	106.9	105.7	106.7	107.2
2000	92.3	93.0	102.9	103.6	103.9	104.9	104.9
2500	89.3	90.1	99.5	100.2	101.9	102.9	102.5
3150	86.2	87.0	96.3	97.0	99.8	100.8	100.3
4000	83.0	83.6	93.0	93.6	97.6	98.4	97.9
5000	79.6	80.1	89.6	90.0	95.2	95.8	95.3
6300	76.1	76.4	86.1	86.4	92.7	93.1	92.5
8000	72.5	72.6	82.5	82.7	90.1	90.3	89.8
10000	68.7	68.7	78.7	78.7	87.3	87.3	86.8
12500	64.8	64.8	74.7	74.7	84.4	84.4	83.8
16000	60.8	60.8	70.4	70.4	81.3	81.3	80.5
20000	56.5	56.5	65.8	65.8	78.1	78.1	76.9
25000	52.1	52.1	60.8	60.8	74.7	74.7	72.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-104G TAKEOFF POWER
100 % RPM
AIRSPEED = 240 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-045-103-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

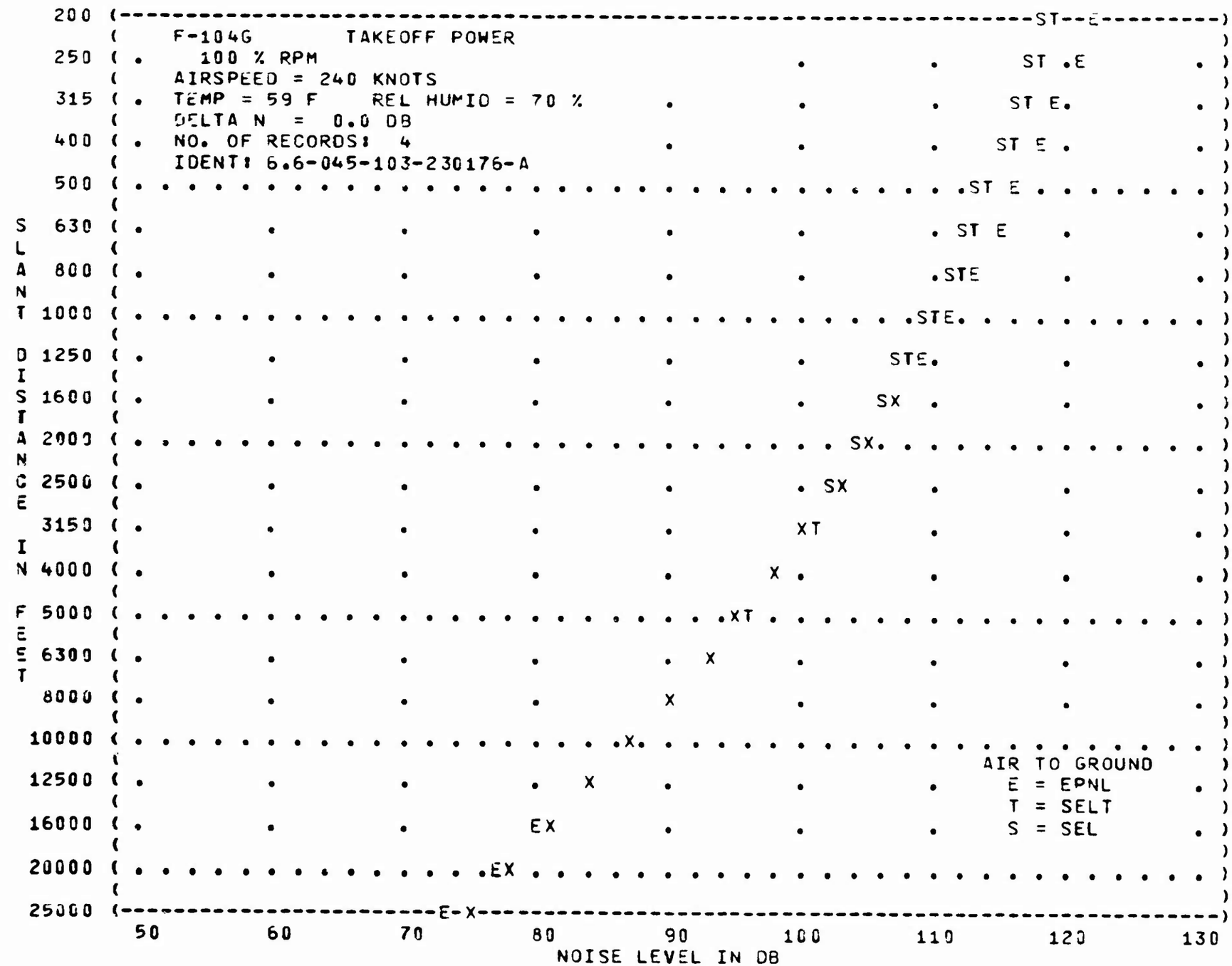

F-104G TAKEOFF POWER
100 % RPM
AIRSPEED = 240 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-045-103-230176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-104G

OPERATION:
TAKEOFF POWER
100 % RPM
AIRSPEED = 240 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 045
OPS CODE: 103
PROFILE VER: A
23 JAN 76
PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	86	86	82	88	100	103	103	100	101	102	100	101	102	102	102	102	102	101	99	97	94	92	90	88
250	86	84	80	86	98	101	101	98	99	100	98	99	100	100	100	100	100	99	96	95	91	89	87	84
315	84	82	78	84	96	99	99	96	97	98	96	97	98	98	98	98	97	96	94	92	89	86	83	80
400	82	80	76	82	94	97	97	94	95	96	94	95	96	96	96	96	95	94	91	89	86	83	80	75
500	80	78	74	80	92	94	95	92	93	94	92	93	93	94	94	93	93	91	89	86	83	79	75	70
630	78	76	72	78	89	92	92	89	91	92	89	90	91	92	91	91	90	89	86	83	79	75	70	63
800	76	74	70	76	86	89	89	86	89	90	87	88	89	89	89	88	88	86	83	80	75	70	64	56
1000	74	72	68	73	83<	86	86	83	86	88	85	86	87	87	87	86	85	83	79	76	71	65	58	47
1250	72	70	65	70	80	83	83	80	83	86	83	84	84	84	84	83	82	80	75	71	66	59	50	36
1600	70	66	62	66	77	79	80	77	80	83	81	81	82	82	81	80	78	76	71	66	60	52	40	23
2000	67	63	58	62	73	76	76	73	76	81	78	79	79	79	78	77	75	72	66	60	54	43	29	7
2500	63	59	54	58	69	71	71	68	72	77	76	76	76	76	75	73	71	67	61	53	46	33	15	
3150	59	55	49	53	64	66	66	63	68	73	72	74	74	73	72	69	66	62	54	45	37	21		
4000	55	49	44	48	58	60	61	57	63	68	68	70	70	69	68	65	61	56	47	35	25	5		
5000	50	45	39	43	53	56	56	52	57	63	64	66	66	65	63	60	55	49	38	23	12			
6300	44	40	35	38	49	51	51	47	51	57	59	61	62	61	58	54	48	40	27	9				
8000	42	38	32	36	46	48	48	45	48	54	56	57	58	56	52	47	40	30	14					
10000	40	36	30	33	44	46	45	42	44	50	52	53	53	50	46	39	30	18						
12500	38	33	28	31	41	43	42	39	41	46	48	48	47	44	38	29	19	3						
16000	36	31	25	28	38	40	39	35	37	42	43	42	40	36	28	17	4							
20000	33	29	23	26	36	37	36	31	33	37	37	35	32	26	17	3								
25000	31	26	20	23	32	33	32	27	28	31	30	27	22	15	3									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-104G

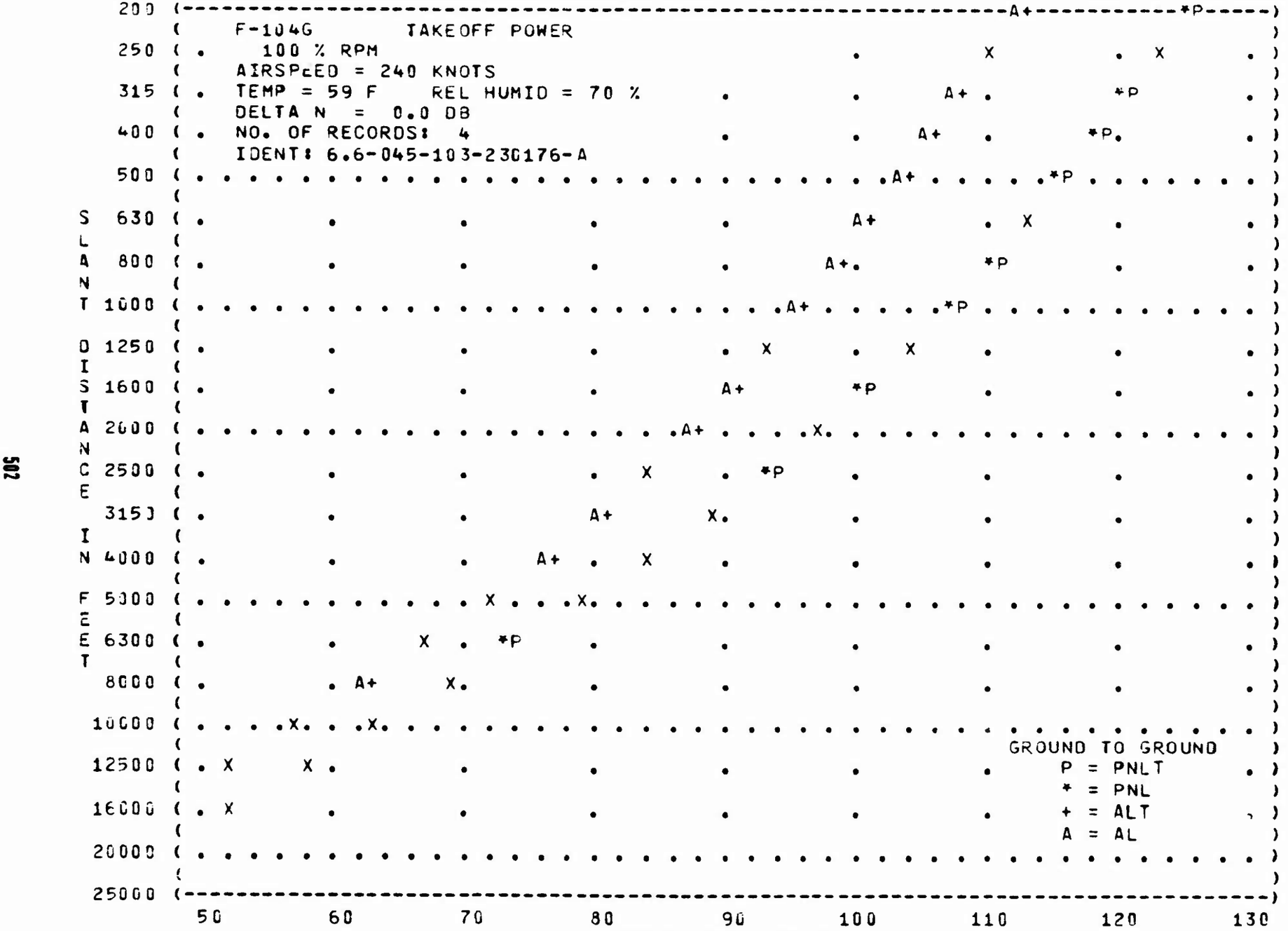
OPERATION:
TAKEOFF POWER
100 % RPM
AIRSPEED = 240 KNOTS

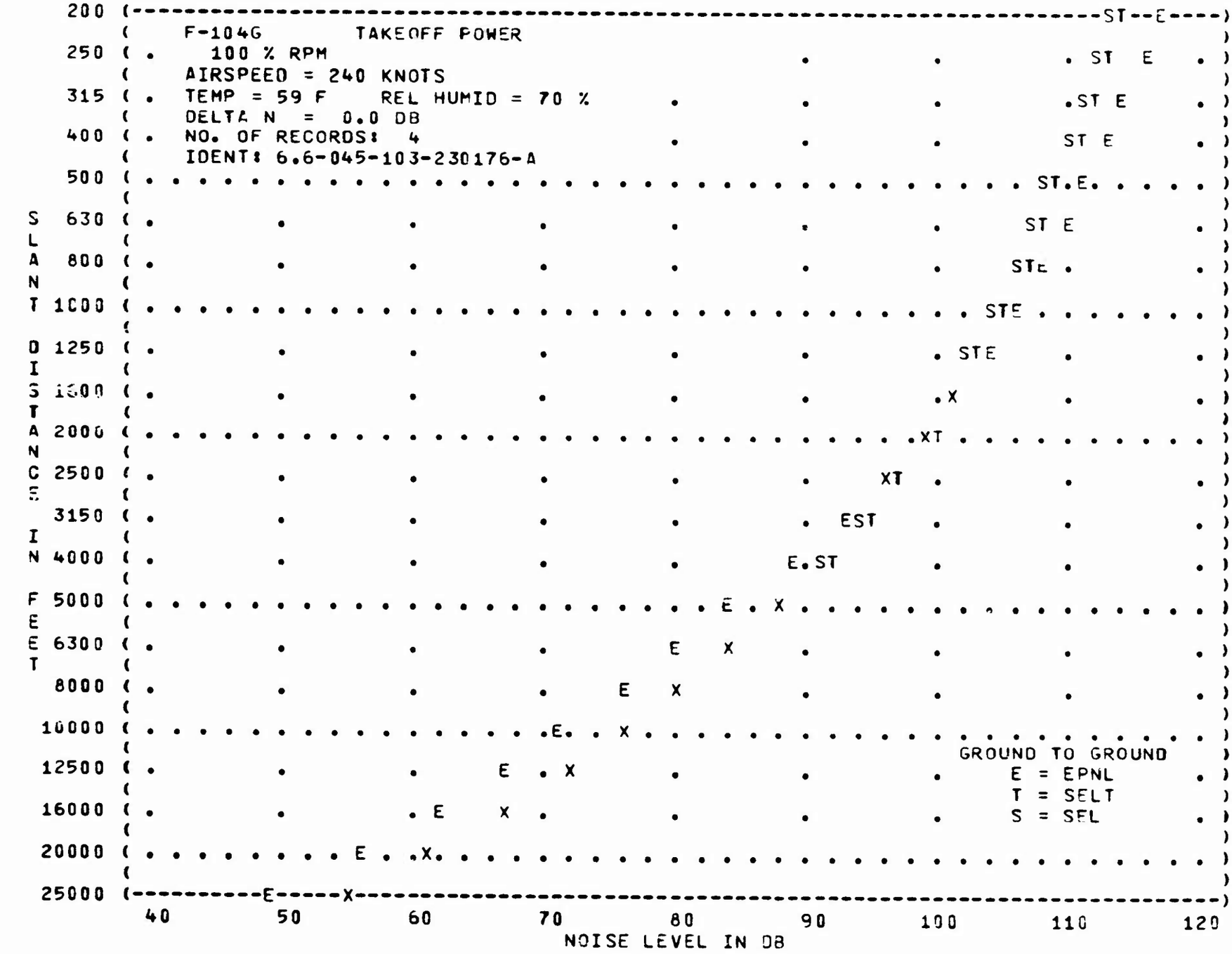
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

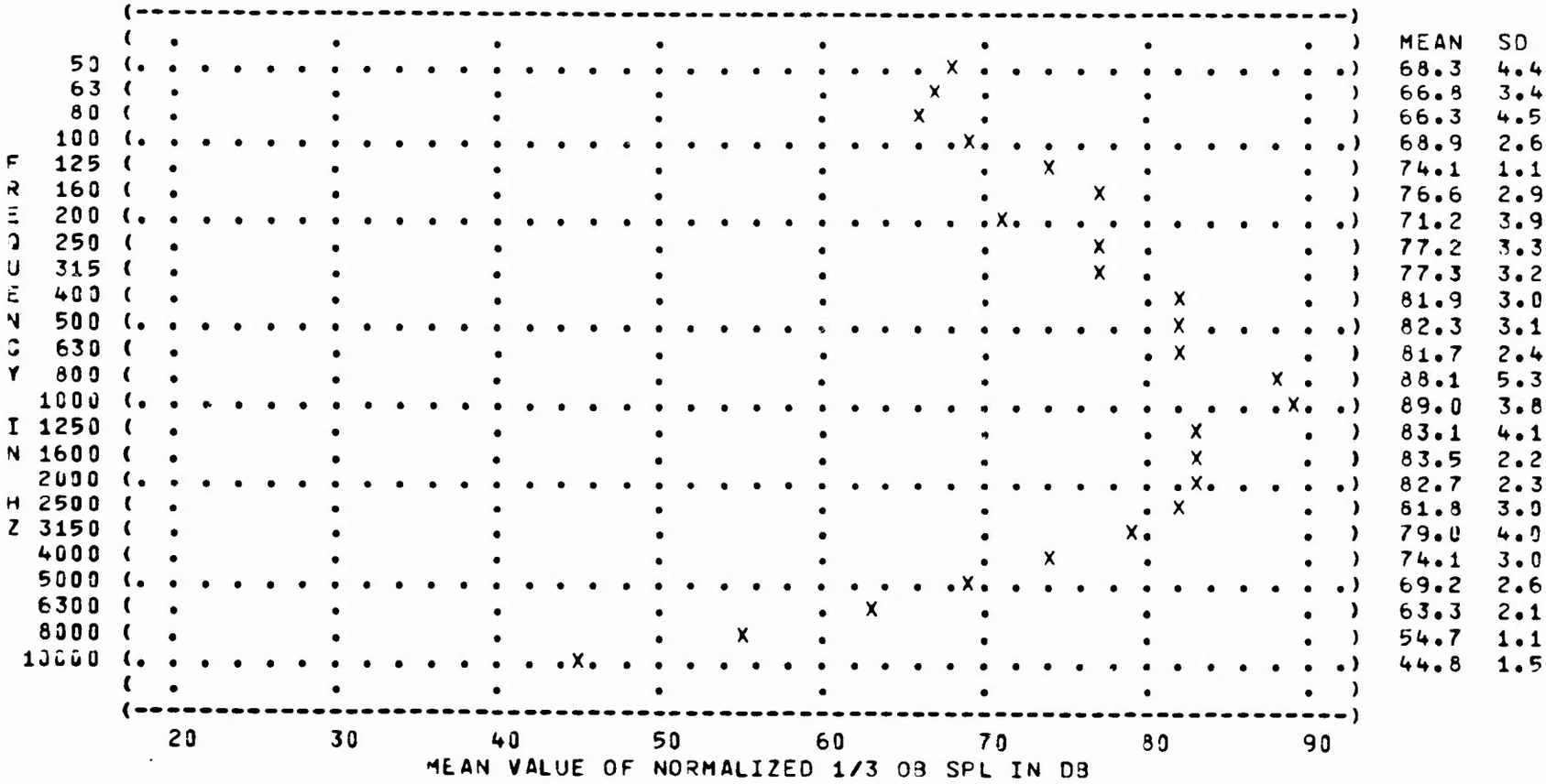
A/C CODE: 045
OPS CODE: 103
PROFILE VER: A
23 JAN 76
PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	111.9	112.6	124.9	125.6	113.5	114.4	116.9
250	109.7	110.4	122.6	123.3	112.3	113.2	115.6
315	107.5	108.2	120.3	121.0	111.1	112.0	114.3
400	105.2	105.9	117.9	118.6	109.8	110.7	112.9
500	102.9	103.6	115.3	116.0	108.5	109.4	111.4
630	100.5	101.2	112.7	113.4	107.1	108.0	109.7
800	98.0	98.7	109.9	110.6	105.6	106.5	107.9
1000	95.4	96.1	106.9	107.6	104.0	105.0	105.9
1250	92.7	93.4	103.7	104.4	102.3	103.3	103.8
1600	89.9	90.6	100.4	101.1	100.5	101.5	101.4
2000	87.0	87.7	96.8	97.5	98.6	99.5	98.8
2500	83.7	84.4	92.8	93.5	96.3	97.3	95.9
3150	80.2	80.9	88.5	89.2	93.8	94.8	92.5
4000	76.3	76.9	83.7	84.2	90.9	91.7	88.5
5000	71.9	72.3	78.7	79.1	87.5	88.1	84.3
6300	67.1	67.4	73.4	73.6	83.7	84.1	79.8
8000	62.5	62.6	68.6	68.7	80.1	80.3	75.8
10000	57.4	57.4	63.3	63.3	76.0	76.0	71.3
12500	51.9	51.9	57.7	57.7	71.5	71.5	66.7
16000	46.0	46.0	51.7	51.7	66.6	66.6	61.8
20000	39.6	39.6	45.0	45.0	61.2	61.2	56.1
25000	32.9	32.9	37.2	37.2	55.5	55.5	49.3

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-104G TAKEOFF POWER
100 % RPM
AIRSPEED = 240 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-045-103-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-104G TAKEOFF POWER
100 % RPM
AIRSPEED = 240 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-045-103-230176-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



	MEAN	SD
50	68.3	4.4
63	66.8	3.4
80	66.3	4.5
100	68.9	2.6
125	74.1	1.1
160	76.6	2.9
200	71.2	3.9
250	77.2	3.3
315	77.3	3.2
400	81.9	3.0
500	82.3	3.1
630	81.7	2.4
800	88.1	5.3
1000	89.0	3.8
1250	83.1	4.1
1600	83.5	2.2
2000	82.7	2.3
2500	81.8	3.0
3150	79.0	4.0
4000	74.1	3.0
5000	69.2	2.6
6300	63.3	2.1
8000	54.7	1.1
10000	44.8	1.5

F-104G CRUISE POWER 92 % RPM

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 4

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-045-104-230176

PNLT = 105.9 PNDB
PNL = 104.5 PNDB
ALT = 95.7 DBA
AL = 94.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 045
OPS CODE: 104
PROFILE VER: A
23 JAN 76
PAGE H3

AIRCRAFT: F-104G

OPERATION:
CRUISE POWER
92 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	82	81	80	83	88	91	85	92	92	96	97	96	103	104	99	99	99	99	97	94	91	88	84	81
250	80	79	78	81	86	89	83	90	90	94	95	94	101	102	96	97	97	97	95	92	88	85	81	78
315	78	77	76	79	84	87	81	88	88	92	93	92	99	100	94	95	95	95	93	90	86	82	78	74
400	76	75	74	77	82	85	79	85	86	90	91	90	97	98	92	93	93	92	90	87	83	79	74	70
500	74	73	72	75	80	83	77	83	84	88	89	88	95	96	90	91	90	90	88	84	80	76	70	65
630	72	71	70	73	78	81	75	81	81	86	87	86	92	94	88	88	88	87	85	81	77	72	66	59
800	70	69	68	71	76	79	73	79	79	84	84	84	90	91	85	86	85	85	82	78	73	68	61	53
1000	68	67	66	69	74	77	71	77	77	82	82	82	88	89<	83	83	83	82	79	74	69	63	55	45
1250	66	65	64	67	72	74	69	75	75	80	80	79	86	87	81	81	80	79	75	70	65	58	48	35
1600	64	63	62	65	70	72	67	73	73	78	78	77	83	84	78	78	77	75	72	65	60	52	39	24
2000	62	61	60	63	68	70	65	71	71	75	75	75	81	81	75	75	74	72	67	60	54	44	29	11
2500	60	59	58	61	66	68	63	69	69	73	73	72	78	79	72	72	70	67	62	54	47	35	17	
3150	58	57	56	59	64	66	61	66	66	71	71	70	75	76	69	68	66	63	57	47	39	25	3	
4000	56	55	54	56	62	64	58	64	64	68	68	67	72	72	65	64	61	57	50	38	29	12		
5000	54	52	52	54	59	62	56	62	61	65	65	64	69	69	61	59	56	51	42	28	18			
6300	52	50	50	52	57	59	54	59	59	63	62	61	66	65	57	54	50	44	33	16	3			
8000	50	48	48	50	55	57	51	57	56	60	59	57	62	60	52	48	43	35	22	1				
10000	48	46	45	48	52	54	49	54	53	56	55	53	57	55	46	41	34	24	8					
12500	45	44	43	45	50	52	46	51	50	53	51	49	52	49	39	33	24	11						
16000	43	41	41	43	47	49	43	48	46	49	47	44	46	42	30	23	12							
20000	41	39	38	40	45	46	40	44	42	44	42	38	39	34	21	10								
25000	39	37	36	37	42	43	36	40	38	39	36	31	31	24	9									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-104G

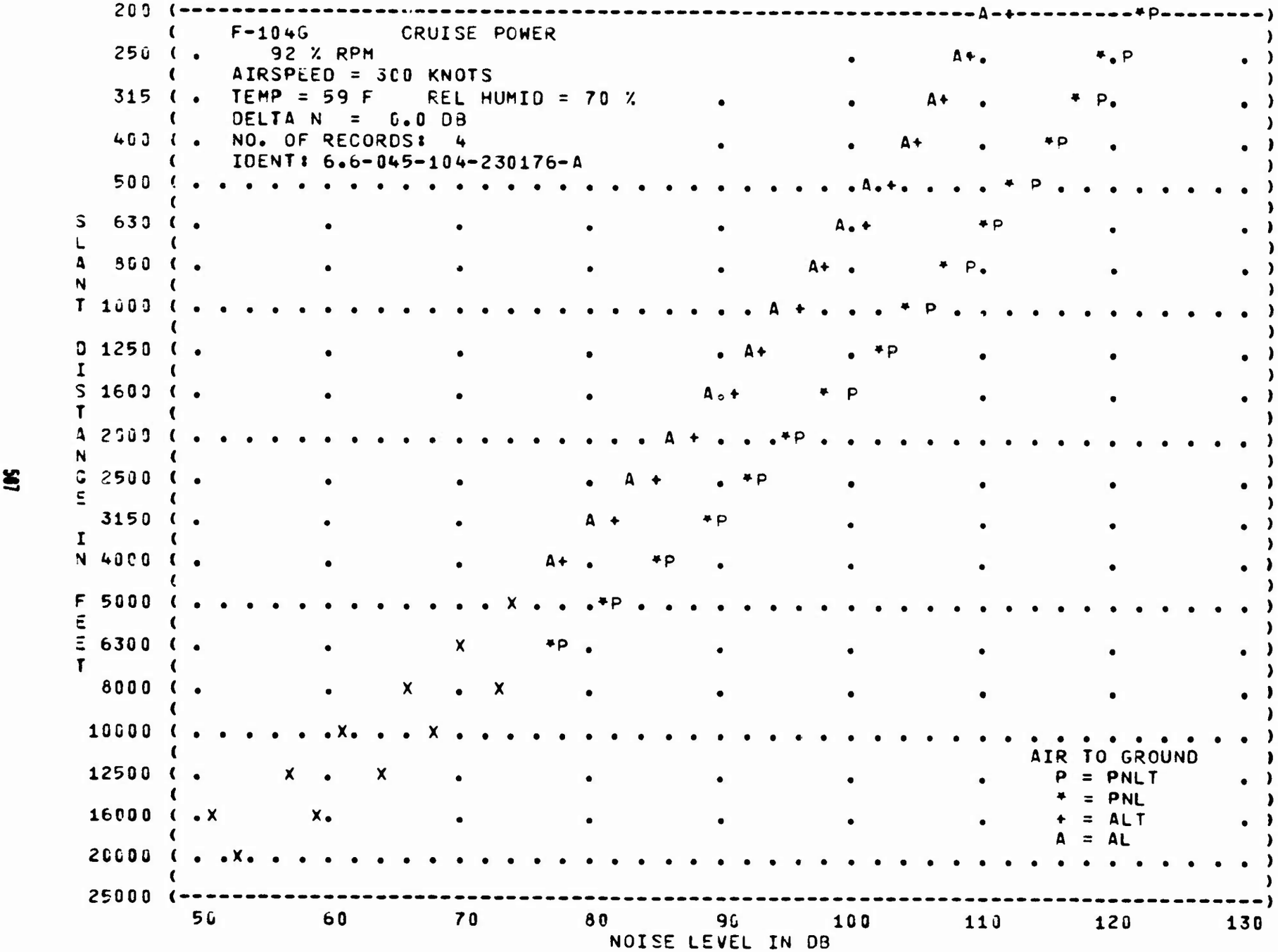
OPERATION:
CRUISE POWER
92 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 045
OPS CODE: 104
PROFILE VER: A
23 JAN 76
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	110.2	111.6	121.7	123.1	107.9	110.0	111.6
250	108.1	109.5	119.5	120.9	106.8	108.8	110.3
315	105.9	107.3	117.2	118.6	105.6	107.6	109.1
400	103.7	105.1	114.8	116.3	104.4	106.4	107.7
500	101.4	102.9	112.4	113.8	103.1	105.2	106.3
630	99.1	100.5	109.9	111.3	101.8	103.9	104.8
800	96.7	98.2	107.2	108.7	100.5	102.5	103.1
1000	94.3	95.7	104.5	105.9	99.0	101.0	101.3
1250	91.7	93.2	101.5	102.9	97.5	99.5	99.4
1600	89.1	90.5	98.4	99.8	95.8	97.8	97.2
2000	86.3	87.7	95.0	96.5	94.0	96.1	94.9
2500	83.4	84.8	91.9	93.3	92.1	94.2	92.7
3150	80.3	81.8	88.5	89.9	90.1	92.1	90.4
4000	77.1	78.2	85.0	86.1	87.8	89.4	87.4
5000	73.6	74.4	81.3	82.1	85.3	86.5	84.3
6300	69.8	70.4	77.3	77.9	82.6	83.4	80.9
8000	65.8	66.1	73.0	73.3	79.5	79.9	77.3
10000	61.4	61.4	68.4	68.4	76.1	76.1	73.3
12500	56.6	56.6	63.7	63.7	72.3	72.3	69.6
16000	51.5	51.5	58.9	58.9	68.2	68.2	65.7
20000	46.1	46.1	53.5	53.5	63.8	63.8	61.3
25000	40.5	40.5	47.5	47.5	59.2	59.2	56.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-104G CRUISE POWER
92 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-045-104-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

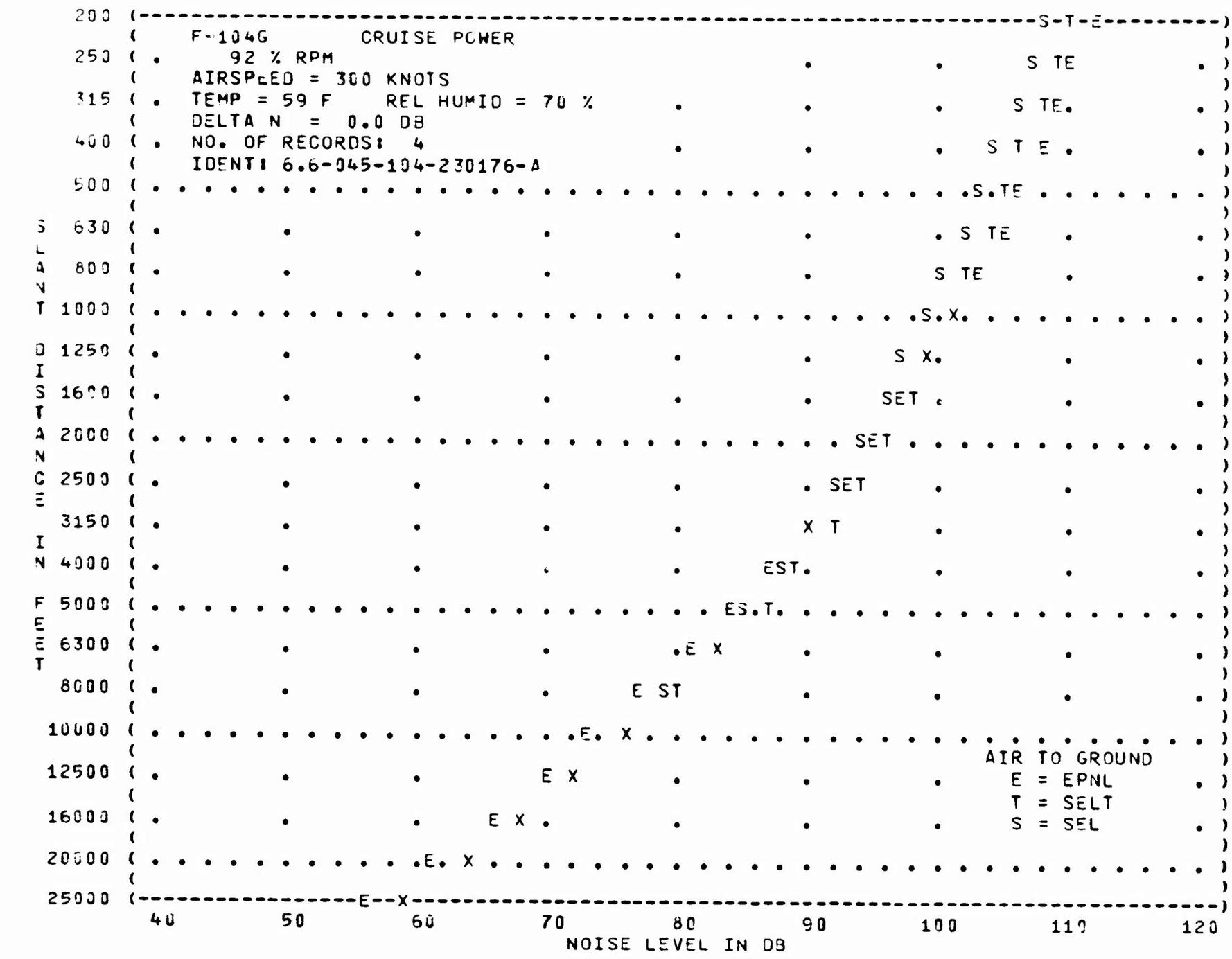

F-104G CRUISE POWER
92 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-045-104-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (OB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-104G

OPERATION:
CRUISE POWER
92 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 OB

A/C CODE: 045
OPS CODE: 104
PROFILE VER: A
23 JAN 76
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	77	76	75	78	83	86	80	87	87	91	92	91	98	99	94	94	94	94	92	89	86	83	79	76
250	75	74	73	76	81	84	78	85	85	89	90	89	96	97	91	92	92	92	90	87	83	80	76	73
315	73	72	71	74	79	82	76	83	83	87	88	87	94	95	89	90	90	90	88	85	81	77	73	69
400	71	70	69	72	77	80	74	80	81	85	86	85	92	93	87	88	88	87	85	82	78	74	69	65
500	69	68	67	70	75	77	72	78	79	83	84	83	90	91	85	86	85	85	83	79	75	71	65	60
630	67	66	65	68	72	74	69	76	76	81	82	81	87	89	83	83	83	82	80	76	72	67	61	54
800	65	64	63	66	70	72	66	73	74	79	79	79	85	86	80	81	80	80	77	73	68	63	56	48
1000	63	62	61	63	67	69	63	70	72	77	77	77	83	84<	78	78	78	77	74	69	64	58	50	40
1250	61	60	58	59	64	66	60	67	69	75	75	74	81	82	76	76	75	74	70	65	60	53	43	30
1600	59	57	55	56	60	62	57	63	66	73	73	72	78	79	73	73	72	70	67	60	55	47	34	19
2000	56	53	51	52	56	58	53	59	62	70	70	70	76	76	70	70	69	67	62	55	49	39	24	6
2500	53	49	47	48	52	54	49	55	58	67	68	67	73	74	67	67	65	62	57	49	42	30	12	
3150	49	45	42	43	47	49	44	50	54	62	65	65	70	71	64	63	61	58	52	42	34	20		
4000	44	40	37	38	42	43	38	44	49	58	61	61	67	67	60	59	56	52	45	33	24	7		
5000	39	35	32	33	37	39	33	39	43	52	57	57	64	64	56	54	51	46	37	23	13			
6300	34	30	28	28	32	34	28	34	37	47	52	53	60	60	52	49	45	39	28	11				
8000	32	28	26	26	30	31	26	32	34	44	49	49	56	55	47	43	38	30	17					
10000	30	26	23	24	27	29	23	29	31	40	45	45	51	50	41	36	29	19	3					
12500	27	24	21	21	25	26	20	26	28	37	41	41	46	44	34	28	19	6						
16000	25	21	19	19	22	23	17	23	24	33	37	36	40	37	25	18	7							
20000	23	19	16	16	20	21	14	19	20	28	32	30	33	29	16	5								
25000	21	17	14	13	17	17	10	15	16	23	26	23	25	19	4									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-104G

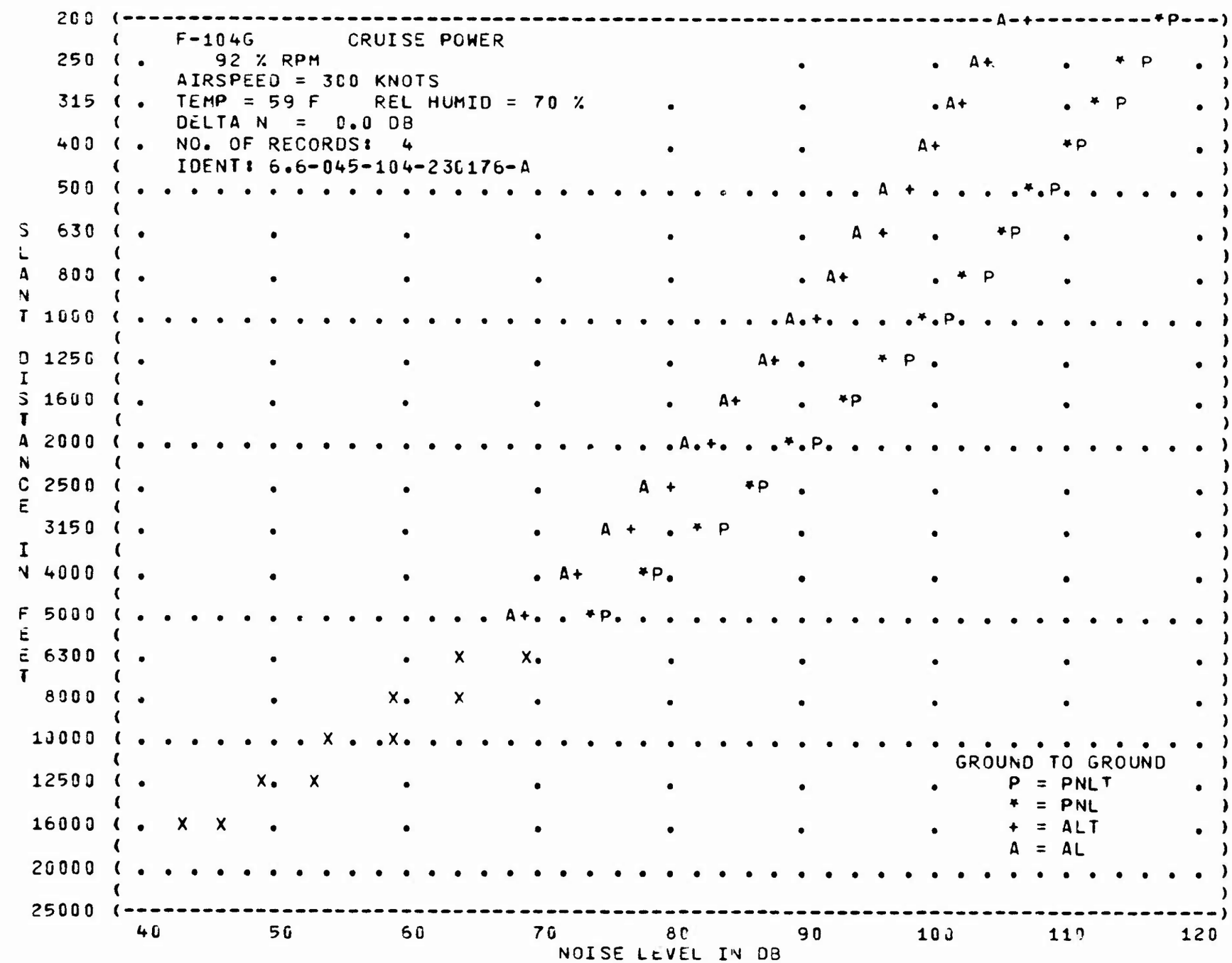
OPERATION:
CRUISE POWER
92 % RPM
AIRSPEED = 300 KNOTS

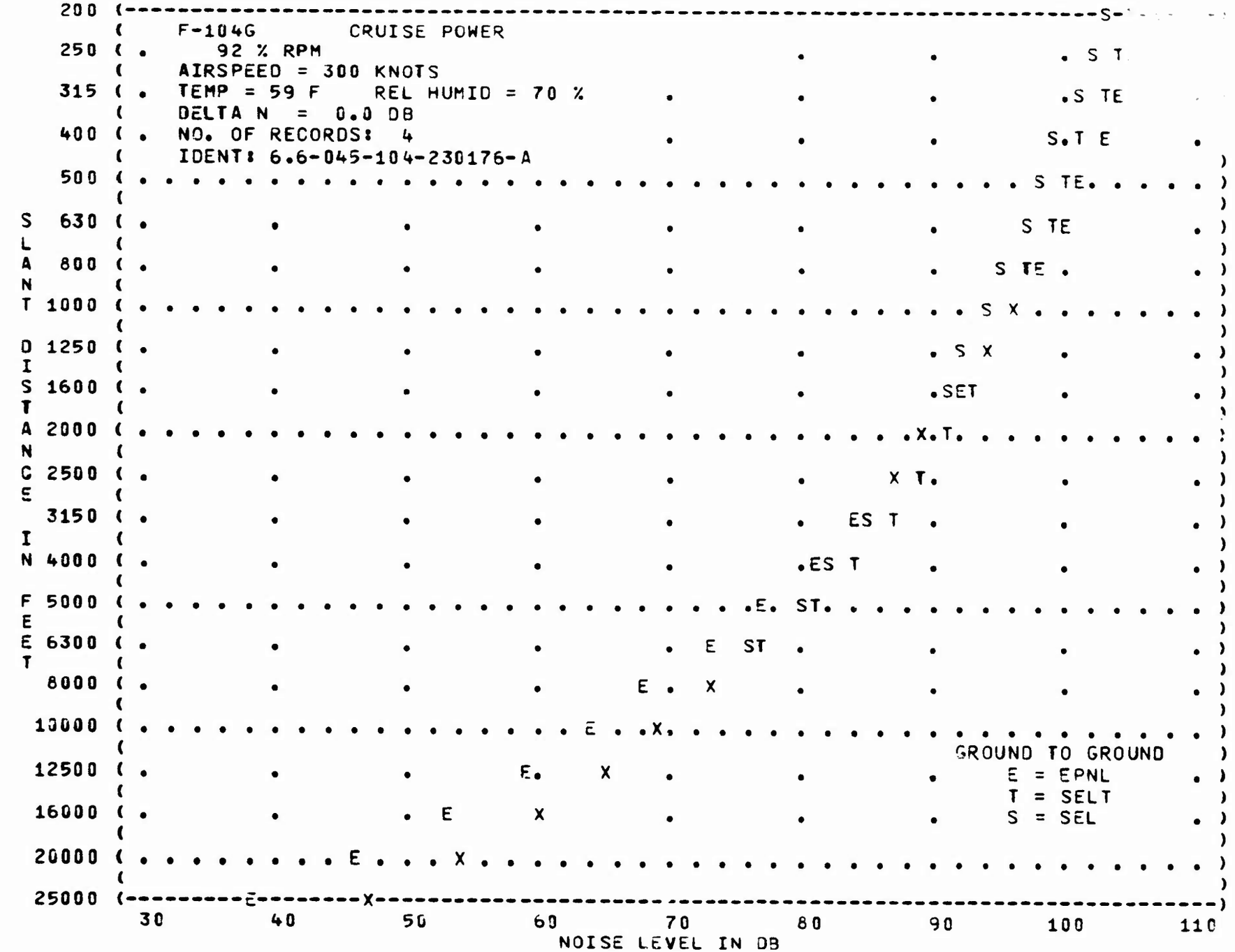
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

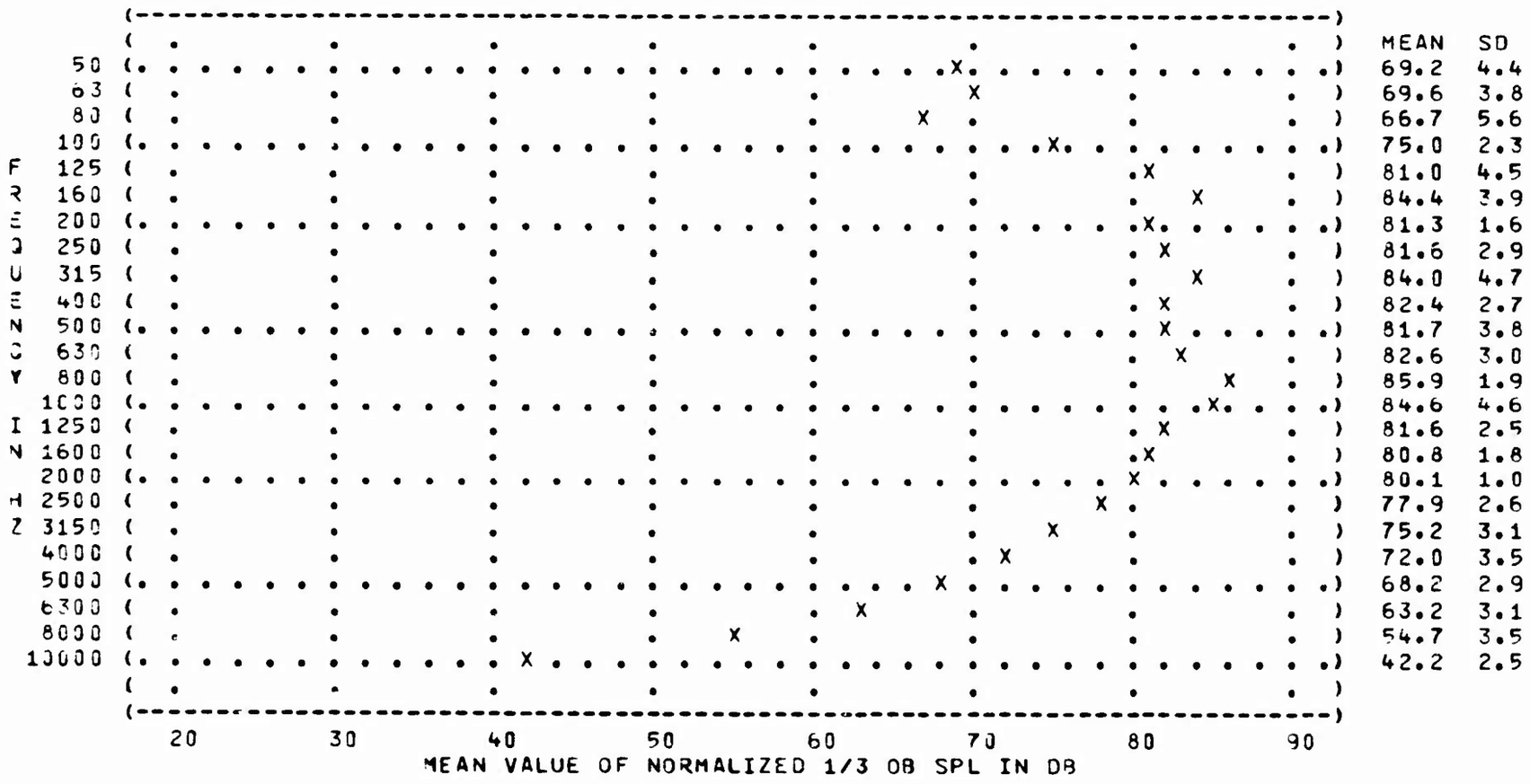
A/C CODE: 045
OPS CODE: 104
PROFILE VER: A
23 JAN 76
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	105.2	106.6	116.7	118.1	102.9	105.0	106.6
250	103.1	104.5	114.5	115.9	101.8	103.8	105.3
315	100.9	102.3	112.2	113.6	100.6	102.6	104.0
400	98.7	100.1	109.8	111.2	99.4	101.4	102.7
500	96.4	97.9	107.4	108.8	98.1	100.2	101.2
630	94.1	95.5	104.8	106.2	96.8	98.9	99.7
800	91.7	93.2	102.1	103.5	95.4	97.5	98.0
1000	89.3	90.7	99.2	100.7	94.0	96.0	96.1
1250	86.7	88.1	96.2	97.6	92.4	94.5	94.1
1600	84.1	85.5	92.9	94.3	90.8	92.8	91.8
2000	81.3	82.7	89.4	90.8	89.0	91.0	89.2
2500	78.3	79.7	85.9	87.4	87.0	89.1	86.8
3150	75.1	76.6	82.2	83.6	84.9	86.9	84.1
4000	71.7	72.8	78.1	79.2	82.4	84.0	80.6
5000	67.8	68.7	73.7	74.5	79.6	80.8	76.7
6300	63.6	64.1	68.8	69.4	76.3	77.1	72.5
8000	59.2	59.5	64.1	64.4	72.9	73.3	68.3
10000	54.4	54.4	58.9	58.9	69.1	69.1	63.8
12500	49.0	49.0	53.1	53.1	64.7	64.7	59.0
16000	42.9	42.9	46.4	46.4	59.6	59.6	53.3
20000	36.1	36.1	38.0	38.0	53.8	53.8	45.8
25000	28.6	28.6	28.7	28.7	47.3	47.3	37.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-104G CRUISE POWER
92 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-045-104-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB


F-104G CRUISE POWER
92 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-045-104-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-104G APPROACH POWER 95 % RPM

AIRSPEED = 190 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 4

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-045-105-230176

PNLT = 103.6 PNDB
PNL = 103.0 PNDB
ALT = 92.5 DBA
AL = 92.0 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-104G

OPERATION:
APPROACH POWER
95 % RPM
AIRSPEED = 190 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 045
OPS CODE: 105
PROFILE VER: A
23 JAN 76
PAGE H4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	83	84	81	89	95	99	95	96	98	97	96	97	101	100	97	97	97	95	94	92	90	88	84	78
250	81	82	79	87	93	97	93	94	96	95	94	95	99	98	95	95	94	93	91	90	87	85	81	75
315	79	80	77	85	91	95	91	92	94	93	92	93	97	96	93	92	92	91	89	87	84	82	77	71
400	77	78	75	83	89	93	89	90	92	91	90	91	95	94	91	90	90	88	87	85	82	79	74	67
500	75	76	73	81	87	91	87	88	90	89	88	89	92	91	88	88	88	86	84	82	79	76	70	62
630	73	74	71	79	85	89	85	86	88	87	86	87	90	89	86	86	85	83	81	79	76	72	66	56
800	71	72	69	77	83	86	83	84	86	85	84	85	88	87	84	83	83	81	78	76	72	68	61	50
1000	69	70	67	75	81	84<	81	82	84	82	82	83	86	85	82	81	80	78	75	72	68	63	55	42
1250	67	68	65	73	79	82	79	80	82	80	80	80	84	82	79	78	77	75	72	68	64	58	48	33
1600	65	66	63	71	77	80	77	77	80	78	77	78	81	80	76	75	74	72	68	64	59	52	40	22
2000	63	64	61	69	75	78	75	75	78	76	75	76	79	77	74	72	71	68	64	58	53	44	30	9
2500	61	61	59	67	73	76	73	73	75	74	73	73	76	74	71	69	67	64	59	52	46	36	18	
3150	59	59	56	65	71	74	71	71	73	71	70	71	73	71	67	66	63	59	53	45	39	25	4	
4000	57	57	54	63	68	72	68	69	71	69	67	68	70	68	64	62	59	54	47	37	29	13		
5000	55	55	52	60	66	69	66	66	68	66	65	65	67	65	60	57	54	48	39	27	18			
6300	53	53	50	58	64	67	64	64	66	63	62	62	64	61	56	52	48	40	30	15	4			
8000	51	51	48	56	62	65	61	61	63	60	59	58	60	56	51	46	41	32	19	0				
10000	49	49	46	54	59	62	59	58	60	57	55	54	55	51	45	39	32	21	6					
12500	46	47	43	51	57	60	56	55	57	54	51	50	50	45	38	31	22	9						
16000	44	44	41	49	54	57	53	52	53	50	47	45	44	39	30	21	10							
20000	42	42	39	46	52	54	50	49	49	45	42	39	37	30	20	9								
25000	40	39	36	44	49	51	46	45	45	40	36	32	29	21	8									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-104G

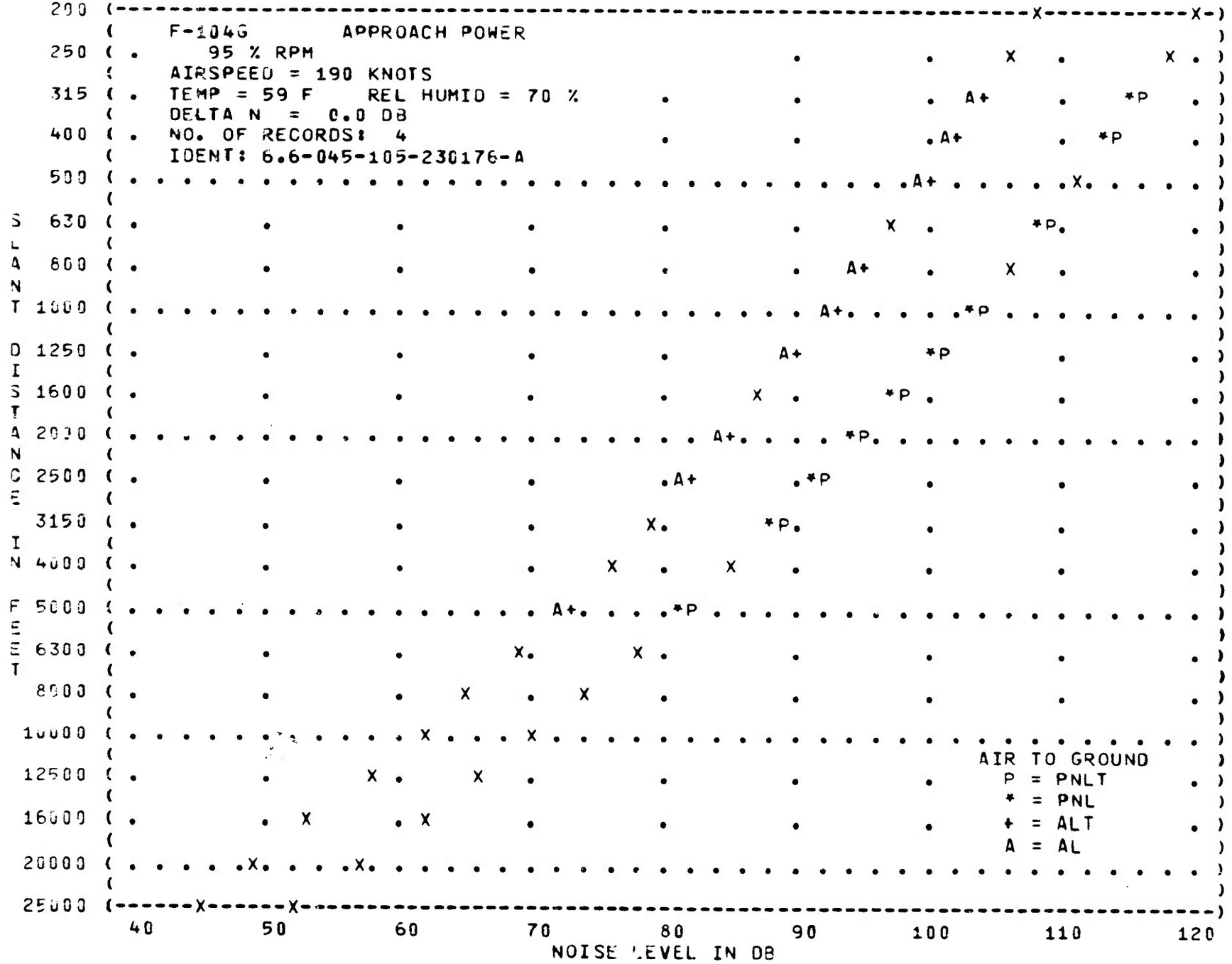
OPERATION: APPROACH POWER, 95 % RPM, AIRSPEED = 190 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 045
OPS CODE: 105
PROFILE VER: A
23 JAN 76
PAGE I4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	107.7	108.2	119.9	120.5	109.5	110.6	113.2
250	105.6	106.1	117.7	118.3	108.4	109.5	112.0
315	103.4	103.9	115.5	116.0	107.2	108.3	110.8
400	101.2	101.8	113.1	113.7	106.0	107.1	109.4
500	99.0	99.5	110.7	111.3	104.8	105.9	108.0
630	96.7	97.2	108.3	108.8	103.5	104.6	106.6
800	94.4	94.9	105.7	106.2	102.2	103.3	105.0
1000	92.0	92.5	103.0	103.6	100.8	101.9	103.3
1250	89.5	90.0	100.3	100.8	99.3	100.4	101.6
1600	86.9	87.5	97.3	97.9	97.7	98.8	99.6
2000	84.3	84.8	94.2	94.8	96.1	97.2	97.5
2500	81.5	82.0	91.2	91.7	94.3	95.4	95.5
3150	78.6	79.1	88.0	88.6	92.4	93.5	93.3
4000	75.5	76.0	84.7	85.2	90.3	91.2	90.8
5000	72.3	72.6	81.2	81.5	88.1	88.8	88.1
6300	68.9	69.1	77.6	77.8	85.7	86.1	85.3
8000	65.3	65.4	74.0	74.2	83.1	83.3	82.5
10000	61.5	61.5	70.3	70.3	80.3	80.3	79.5
12500	57.5	57.5	66.3	66.3	77.3	77.3	76.5
16000	53.4	53.4	62.0	62.0	74.2	74.2	73.2
20000	49.1	49.1	57.3	57.3	70.9	70.9	69.5
25000	44.7	44.7	52.3	52.3	67.5	67.5	65.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-104G APPROACH POWER
95 % RPM
AIRSPEED = 190 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-045-105-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

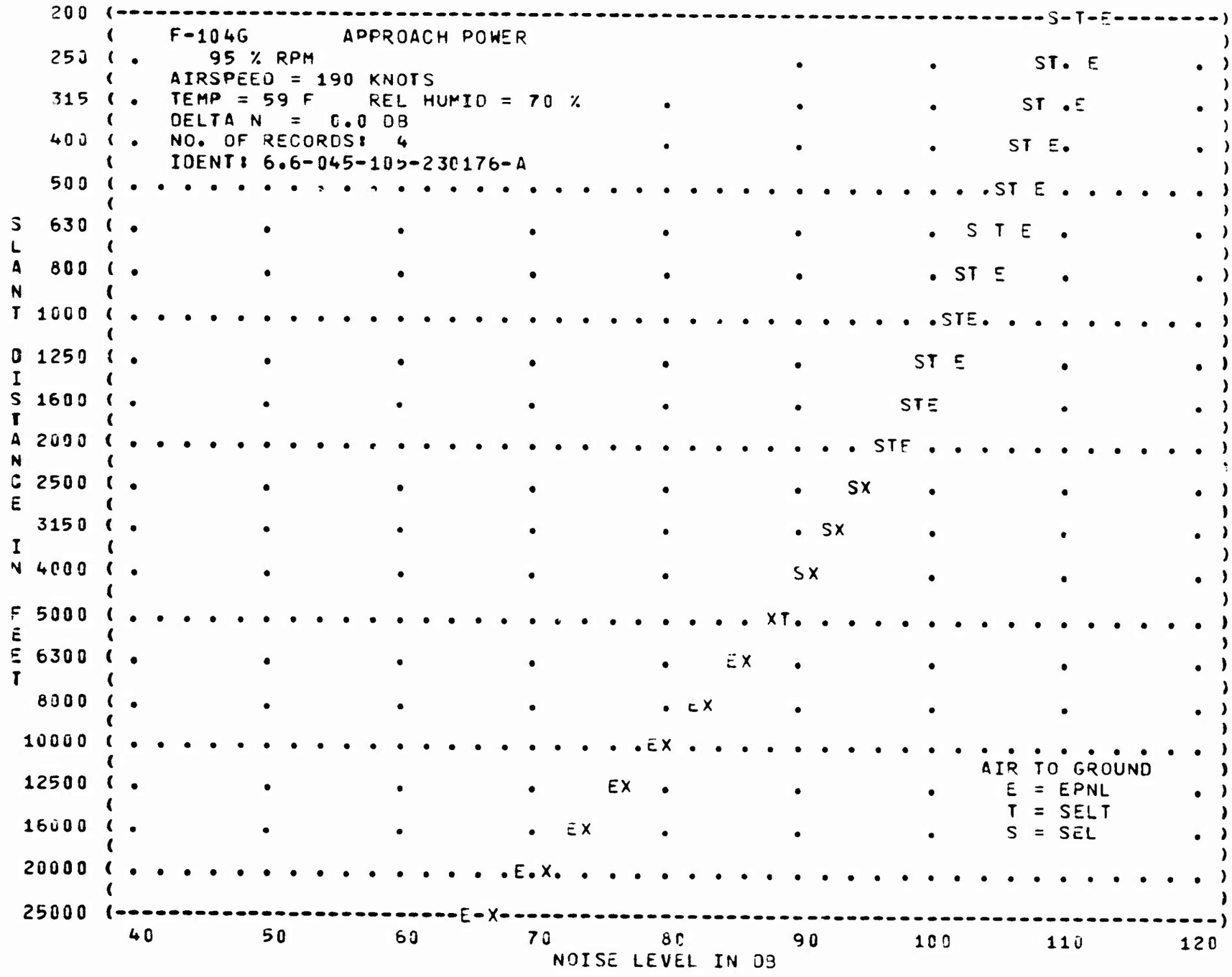

F-104G APPROACH POWER
95 % RPM
AIRSPEED = 190 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-045-105-230176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-104G

OPERATION:
APPROACH POWER
95 % RPM
AIRSPEED = 190 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
A/C CODE: 045
OPS CODE: 105
PROFILE VER: A
23 JAN 76
PAGE L4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	78	79	76	84	90	94	90	91	93	92	91	92	96	95	92	92	92	90	89	87	85	83	79	73
250	76	77	74	82	88	92	88	89	91	90	89	90	94	93	90	90	89	88	86	85	82	80	76	70
315	74	75	72	80	86	90	86	87	89	88	87	88	92	91	88	87	87	86	84	82	79	77	72	66
400	72	73	70	78	84	87	84	85	87	86	85	86	90	89	86	85	85	83	82	80	77	74	69	62
500	70	71	68	76	82	85	82	83	85	84	83	84	87	86	83	83	83	81	79	77	74	71	65	57
630	68	69	66	74	79	82	79	80	83	82	81	82	85	84	81	81	80	78	76	74	71	67	61	51
800	66	67	64	72	77	80	76	77	81	80	79	80	83	82	79	78	78	76	73	71	67	63	56	45
1000	64	65	62	69	74	77<	74	74	79	77	77	78	81	80	77	76	75	73	70	67	63	58	50	37
1250	62	63	59	66	71	74	70	71	76	75	75	75	79	77	74	73	72	70	67	63	59	53	43	28
1600	60	59	55	62	67	70	67	68	73	73	72	73	76	75	71	70	69	67	63	59	54	47	35	17
2000	57	56	52	58	63	66	63	64	69	71	70	71	74	72	69	67	66	63	59	53	48	39	25	4
2500	54	52	48	54	59	62	59	59	65	67	67	68	71	69	66	64	62	59	54	47	41	31	13	
3150	50	47	43	49	54	57	54	54	61	63	64	66	68	66	62	61	58	54	48	40	34	20		
4000	45	42	37	44	49	51	48	49	56	58	60	62	65	63	59	57	54	49	42	32	24	8		
5000	40	38	33	39	44	46	43	44	50	53	56	58	62	60	55	52	49	43	34	22	13			
6300	35	33	28	34	39	42	38	39	44	47	52	54	58	56	51	47	43	35	25	10				
8000	33	31	26	32	37	39	36	36	41	44	49	50	54	51	46	41	36	27	14					
10000	31	29	24	30	34	37	33	33	38	41	45	46	49	46	40	34	27	16	1					
12500	28	27	21	27	32	34	30	30	35	38	41	42	44	40	33	26	17	4						
16000	26	24	19	25	29	31	27	27	31	34	37	37	38	34	25	16	5							
20000	24	22	17	22	27	29	24	24	27	29	32	31	31	25	15	4								
25000	22	19	14	20	24	25	21	20	23	24	26	24	23	16	3									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-104G

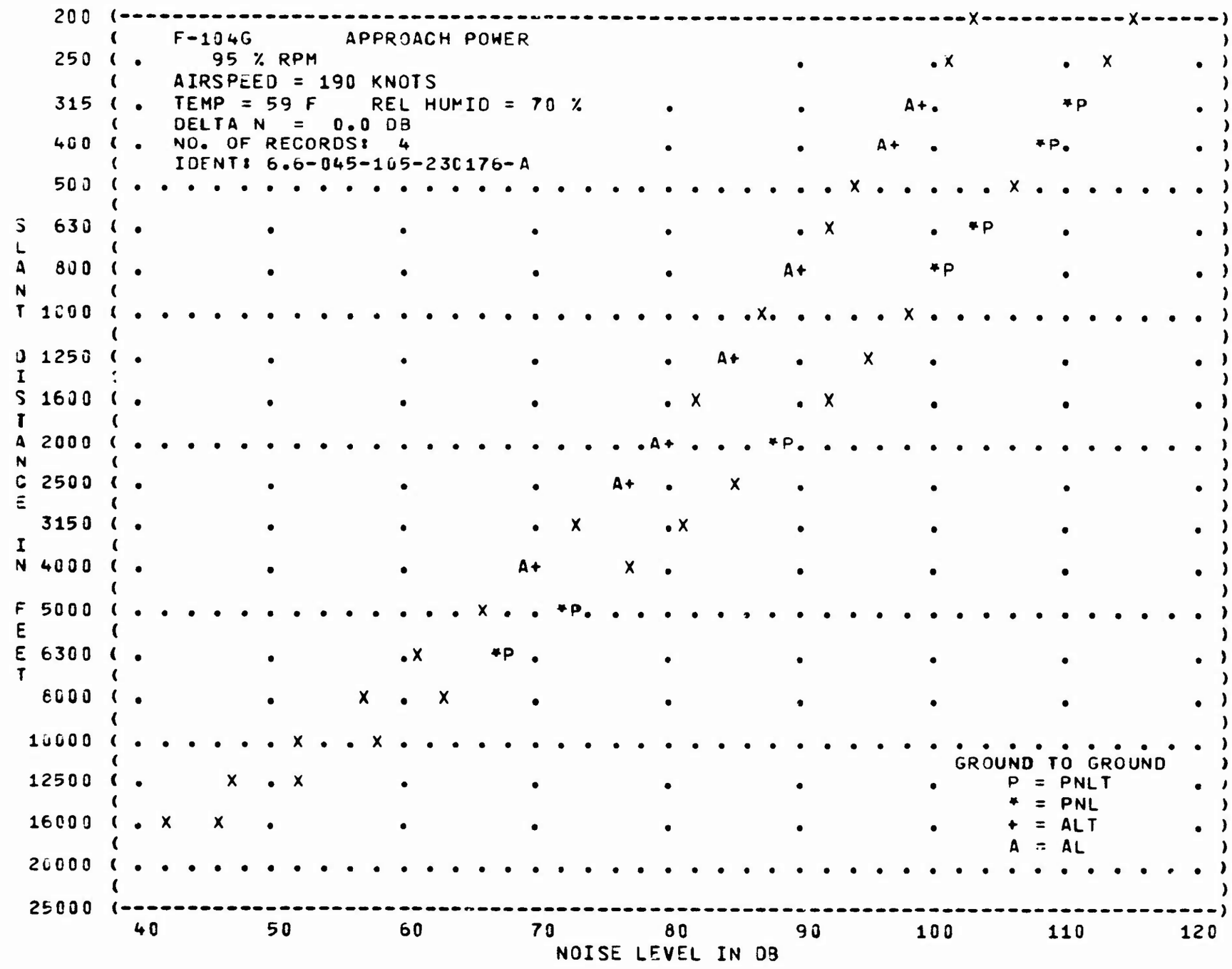
OPERATION:
APPROACH POWER
95 % RPM
AIRSPEED = 190 KNOTS

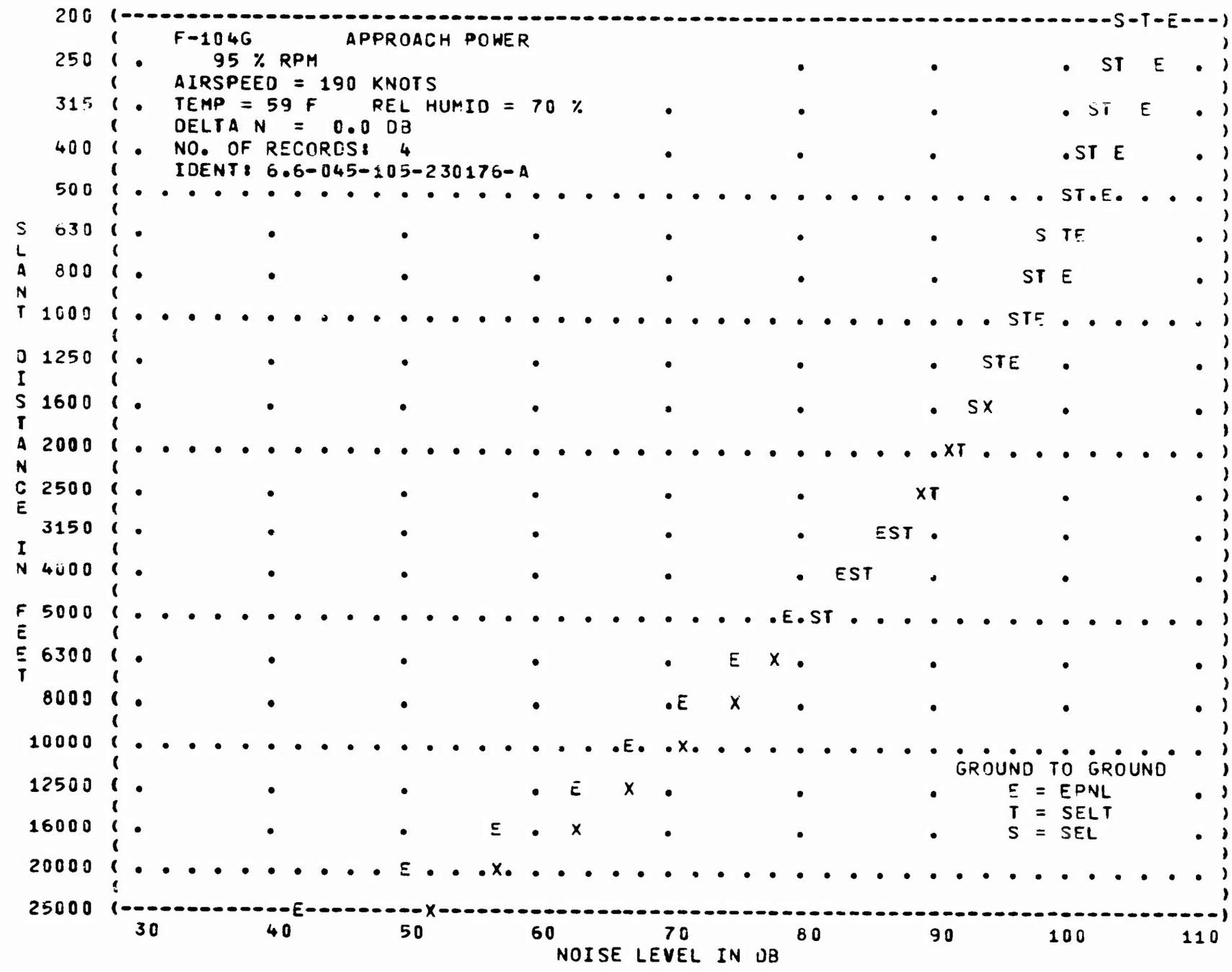
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

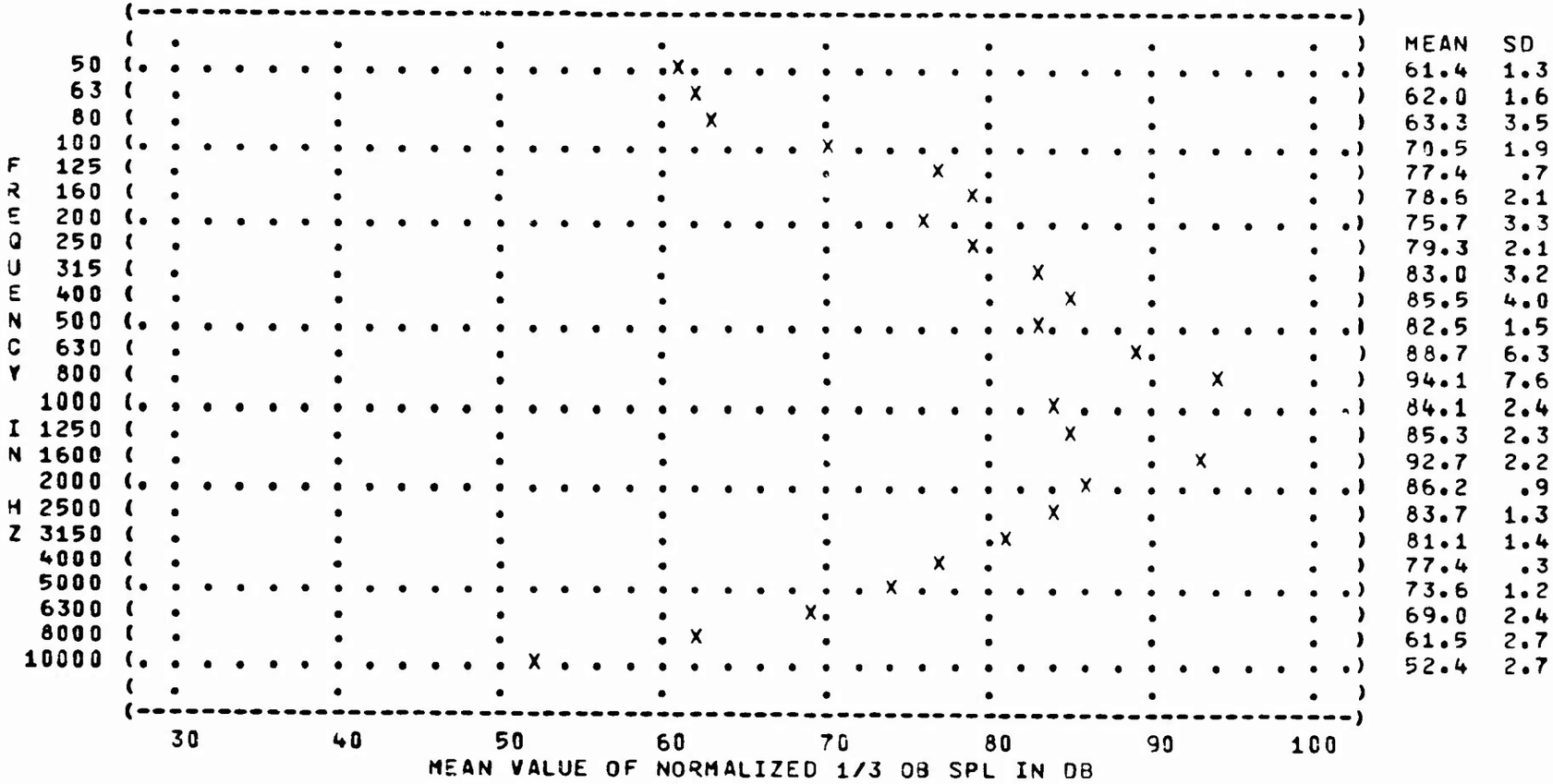
A/C CODE: 045
OPS CODE: 105
PROFILE VER: A
23 JAN 76
PAGE M4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	102.7	103.2	114.9	115.4	104.5	105.5	108.2
250	100.6	101.1	112.7	113.2	103.4	104.4	107.0
315	98.4	98.9	110.4	110.9	102.2	103.3	105.7
400	96.2	96.7	108.1	108.6	101.0	102.1	104.4
500	94.0	94.5	105.7	106.2	99.8	100.8	102.9
630	91.7	92.2	103.1	103.6	98.5	99.5	101.4
800	89.3	89.8	100.5	101.0	97.1	98.2	99.7
1000	86.9	87.4	97.7	98.2	95.7	96.7	97.9
1250	84.4	84.9	94.7	95.2	94.2	95.2	96.0
1600	81.7	82.2	91.5	92.0	92.5	93.6	93.8
2000	79.0	79.5	88.1	88.6	90.8	91.8	91.4
2500	76.0	76.6	84.6	85.1	88.8	89.9	88.9
3150	72.9	73.4	80.9	81.4	86.7	87.7	86.2
4000	69.4	69.8	76.8	77.2	84.2	85.1	82.9
5000	65.5	65.8	72.3	72.7	81.3	81.9	79.2
6300	61.2	61.4	67.4	67.7	78.0	78.4	75.1
8000	57.0	57.1	63.0	63.1	74.8	75.0	71.4
10000	52.4	52.4	58.1	58.1	71.2	71.2	67.3
12500	47.3	47.3	52.5	52.5	67.1	67.1	62.7
16000	41.7	41.7	45.9	45.9	62.5	62.5	57.1
20000	35.5	35.5	38.3	38.3	57.3	57.3	50.5
25000	28.7	28.7	29.0	29.0	51.5	51.5	42.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-104G APPROACH POWER
95 % RPM
AIRSPEED = 190 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-045-105-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-104G APPROACH POWER
95 % RPM
AIRSPEED = 190 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-045-105-230176-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB



	MEAN	SD
50	61.4	1.3
63	62.0	1.6
80	63.3	3.5
100	70.5	1.9
125	77.4	.7
160	78.6	2.1
200	75.7	3.3
250	79.3	2.1
315	83.0	3.2
400	85.5	4.0
500	82.5	1.5
630	88.7	6.3
800	94.1	7.6
1000	84.1	2.4
1250	85.3	2.3
1600	92.7	2.2
2000	86.2	.9
2500	83.7	1.3
3150	81.1	1.4
4000	77.4	.3
5000	73.6	1.2
6300	69.0	2.4
8000	61.5	2.7
10000	52.4	2.7

F-104G INTERMEDIATE POWER 92 % RPM

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 4

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-045-106-230176

PNLT = 111.9 PNDB
PNL = 109.3 PNDB
ALT = 101.1 DBA
AL = 98.5 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-104G

OPERATION: INTERMEDIATE POWER, 92 % RPM, AIRSPEED = 300 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 045
OPS CODE: 106
PROFILE VER: A
23 JAN 76
PAGE H5

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	75	76	77	85	92	93	90	94	97	100	97	103	109	99	101	109	103	101	100	98	95	93	91	88
250	73	74	75	83	90	91	88	92	95	98	95	101	107	97	99	107	101	99	97	95	92	91	88	85
315	71	72	73	81	88	89	86	89	93	96	93	99	105	95	97	104	98	96	95	93	90	88	84	81
400	69	70	71	79	86	87	84	87	91	94	91	97	103	93	94	102	96	94	92	90	87	85	81	77
500	67	68	69	77	84	85	82	85	89	92	89	95	101	91	92	100	94	92	90	87	84	81	77	72
630	65	66	67	75	81	83	80	83	87	90	87	93	99	89	90	98	91	89	87	84	81	78	72	66
800	63	64	65	72	79	81	78	81	85	88	85	91	96	86	88	95	89	87	84	81	77	74	67	60
1000	61	62	63	70	77	79	76	79	83	85	83	89	94<	84	85	93	86	84	81	77	74	69	62	52
1250	59	60	61	68	75	77	74	77	81	83	80	86	92	82	83	90	83	81	78	73	69	64	55	43
1600	57	58	59	66	73	74	72	75	79	81	78	84	89	79	80	87	80	77	74	69	64	57	47	32
2000	55	56	57	64	71	72	69	73	77	79	76	82	87	77	77	84	77	74	70	64	59	50	37	19
2500	53	54	55	62	69	70	67	71	74	77	73	79	84	74	75	81	74	70	65	58	52	41	25	3
3150	51	52	53	60	67	68	65	68	72	74	71	77	82	71	71	77	70	65	59	51	44	31	11	
4000	49	50	51	58	65	66	63	66	70	72	68	74	79	68	68	73	65	60	53	42	34	19		
5000	47	48	49	56	63	64	61	64	67	69	66	71	75	64	64	69	60	53	45	32	23	3		
6300	45	45	47	54	60	61	58	61	65	66	63	68	72	60	59	64	54	46	36	20	9			
8000	43	43	45	51	58	59	56	59	62	63	59	64	68	56	54	58	47	37	25	6				
10000	41	41	42	49	56	57	53	56	59	60	56	60	63	51	49	51	39	27	12					
12500	39	39	40	47	53	54	50	53	56	57	52	56	58	45	42	43	29	15						
16000	36	37	38	44	51	51	47	50	52	53	48	51	53	38	34	33	16							
20000	34	34	35	42	48	48	44	46	48	48	43	45	46	30	24	21	2							
25000	32	32	33	39	45	45	41	42	44	43	37	38	38	20	12	6								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-104G

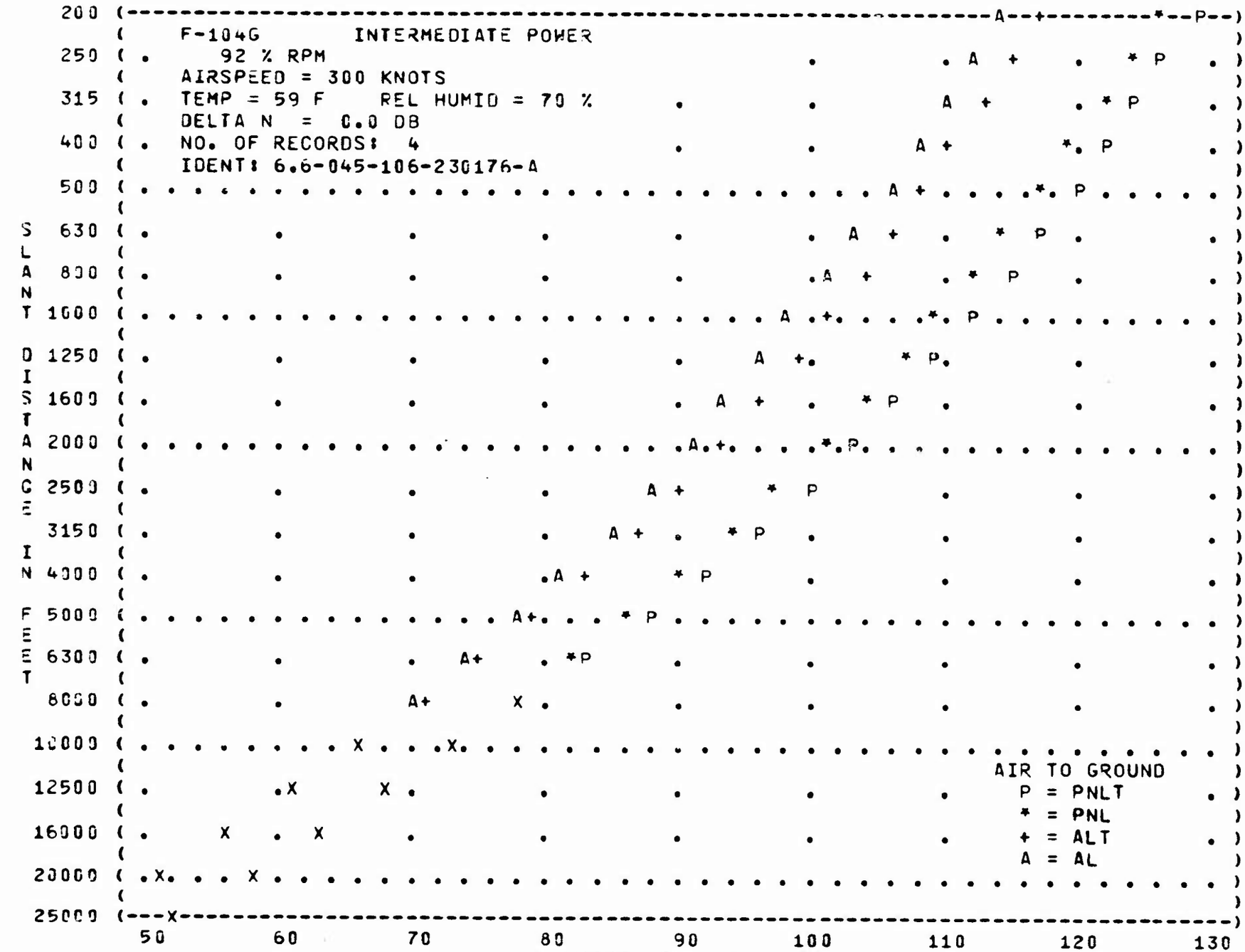
OPERATION:
INTERMEDIATE POWER
92 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 045
OPS CODE: 106
PROFILE VER: A
23 JAN 76
PAGE I5

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	114.3	116.9	126.0	128.6	112.3	115.5	116.6
250	112.2	114.8	123.8	126.4	111.1	114.4	115.4
315	110.0	112.6	121.6	124.2	110.0	113.2	114.1
400	107.8	110.4	119.3	121.9	108.8	112.0	112.8
500	105.6	108.2	116.9	119.5	107.5	110.8	111.5
630	103.3	105.9	114.5	117.1	106.2	109.5	110.0
800	100.9	103.5	111.9	114.6	104.9	108.1	108.5
1000	98.5	101.1	109.3	111.9	103.4	106.7	106.9
1250	95.9	98.6	106.5	109.2	101.9	105.1	105.1
1600	93.3	95.9	103.6	106.2	100.3	103.5	103.2
2000	90.5	93.2	100.5	103.1	98.5	101.7	101.1
2500	87.6	90.2	97.2	99.8	96.6	99.8	98.8
3150	84.5	87.2	93.7	96.3	94.5	97.7	96.3
4000	81.3	83.4	89.9	92.0	92.2	94.8	92.8
5000	77.8	79.3	85.9	87.5	89.7	91.7	89.2
6300	74.0	75.1	82.1	83.1	87.0	88.3	85.7
8000	70.0	70.6	77.9	78.4	84.0	84.6	81.8
10000	65.7	65.7	73.3	73.3	80.7	80.7	77.7
12500	61.0	61.0	68.3	68.3	77.0	77.0	73.7
16000	56.0	56.0	62.9	62.9	72.9	72.9	69.2
20000	50.5	50.5	57.7	57.7	68.5	68.5	65.1
25000	44.8	44.8	51.9	51.9	63.7	63.7	60.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-104G INTERMEDIATE POWER
92 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-045-106-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

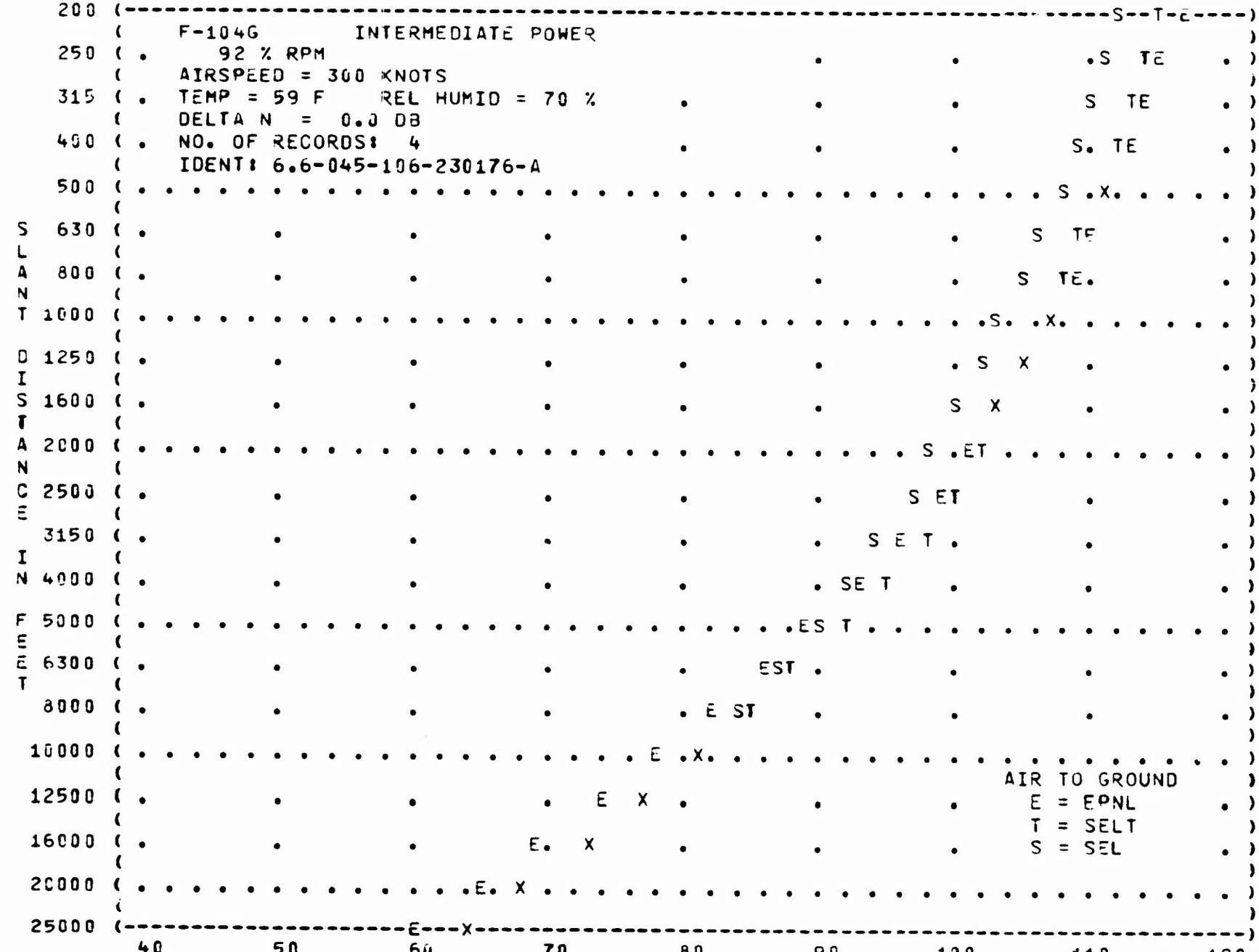

F-104G INTERMEDIATE POWER
92 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-045-106-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-104G

OPERATION:
INTERMEDIATE POWER
92 % RPM

AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

DELTA N = 0.0 DB

A/C CODE: 045
OPS CODE: 106
PROFILE VER: A
23 JAN 76
PAGE L5

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	70	71	72	80	87	88	85	89	92	95	92	98	104	94	96	104	98	96	95	93	90	88	86	83
250	68	69	70	78	85	86	83	87	90	93	90	96	102	92	94	102	96	94	92	90	87	86	83	80
315	66	67	68	76	83	84	81	84	88	91	88	94	100	90	92	99	93	91	90	88	85	83	79	76
400	64	65	66	74	81	82	79	82	86	89	86	92	98	88	89	97	91	89	87	85	82	80	76	72
500	62	63	64	72	78	79	76	80	84	87	84	90	96	86	87	95	89	87	85	82	79	76	72	67
630	60	61	62	70	76	77	74	78	82	85	82	88	94	84	85	93	86	84	82	79	76	73	67	61
800	58	59	60	67	73	74	71	75	80	83	80	86	91	81	83	90	84	82	79	76	72	69	62	55
1000	56	57	58	64	70	71	68	72	78	80	78	84	89<	79	80	88	81	79	76	72	69	64	57	47
1250	54	55	55	61	67	68	65	69	75	78	75	81	87	77	78	85	78	76	73	68	64	59	50	38
1600	52	52	52	58	64	64	61	65	72	76	73	79	84	74	75	82	75	72	69	64	59	52	42	27
2000	49	48	48	54	60	60	57	61	68	74	71	77	82	72	72	79	72	69	65	59	54	45	32	14
2500	46	44	44	50	55	56	53	57	64	70	68	74	79	69	70	76	69	65	60	53	47	36	20	
3150	42	40	39	45	51	51	48	52	60	66	65	72	77	66	66	72	65	60	54	46	39	26	6	
4000	37	35	34	39	45	46	42	46	55	61	61	68	74	63	63	68	60	55	48	37	29	14		
5000	32	30	29	34	40	41	38	41	49	56	57	64	70	59	59	64	55	48	40	27	18			
6300	27	25	25	30	35	36	33	36	43	50	53	60	66	55	54	59	49	41	31	15	4			
8000	25	23	23	27	33	34	30	34	40	47	49	56	62	51	49	53	42	32	20	1				
10000	23	21	20	25	31	31	28	31	37	44	46	52	57	46	44	46	34	22	7					
12500	21	19	18	23	28	28	25	28	34	41	42	48	52	40	37	38	24	10						
16000	18	17	16	20	26	26	22	25	30	37	38	43	47	33	29	28	11							
20000	16	14	13	18	23	23	19	21	26	32	33	37	40	25	19	16								
25000	14	12	11	15	20	20	15	17	22	27	27	30	32	15	7	1								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORPECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-104G

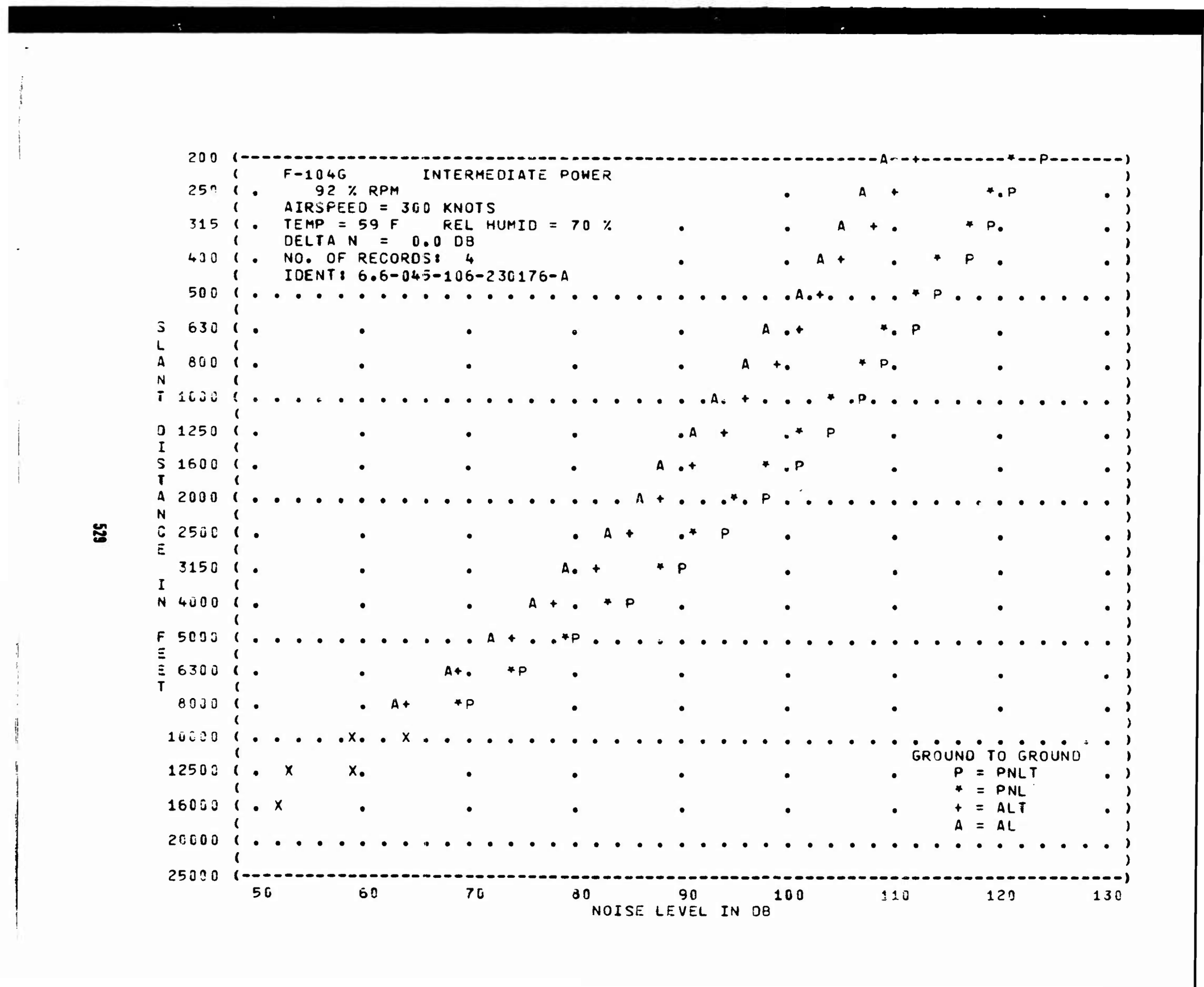
OPERATION:
INTERMEDIATE POWER
92 % RPM
AIRSPEED = 300 KNOTS

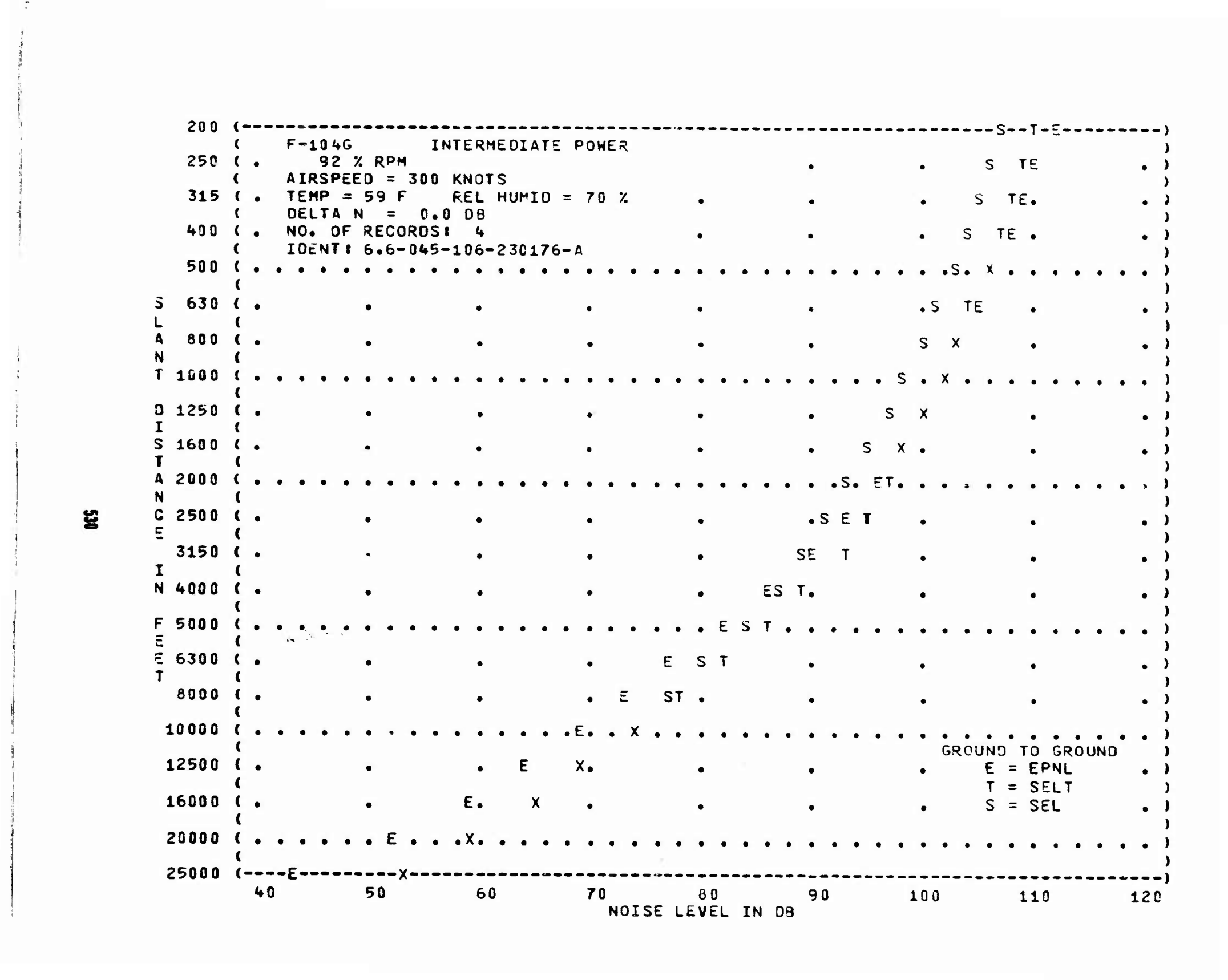
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 045
OPS CODE: 106
PROFILE VER: A
23 JAN 76
PAGE M5

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	109.3	111.9	121.6	123.6	107.3	110.5	111.6
250	107.2	109.8	118.8	121.4	106.1	109.4	110.4
315	105.0	107.6	116.5	119.2	105.0	108.2	109.1
400	102.8	105.4	114.2	116.9	103.8	107.0	107.8
500	100.6	103.2	111.9	114.5	102.5	105.8	106.4
630	98.3	100.9	109.4	112.0	101.2	104.5	105.0
800	95.9	98.5	106.8	109.5	99.9	103.1	103.4
1000	93.5	96.1	104.1	106.7	98.4	101.6	101.7
1250	90.9	93.5	101.3	103.9	96.9	100.1	99.8
1600	88.3	90.9	98.2	100.8	95.2	98.5	97.8
2000	85.5	88.1	95.0	97.6	93.5	96.7	95.6
2500	82.5	85.2	91.4	94.1	91.5	94.7	93.0
3150	79.4	82.0	87.6	90.2	89.3	92.6	90.2
4000	75.9	78.0	83.3	85.4	86.9	89.5	86.2
5000	72.0	73.5	78.6	80.2	83.9	85.9	81.9
6300	67.5	68.6	73.8	74.9	80.5	81.8	77.5
8000	63.3	63.8	69.3	69.8	77.2	77.8	73.3
10000	58.6	58.6	64.4	64.4	73.5	73.5	68.7
12500	53.4	53.4	58.8	58.8	69.4	69.4	64.2
16000	47.7	47.7	52.3	52.3	64.6	64.6	58.7
20000	41.2	41.2	45.0	45.0	59.1	59.1	52.3
25000	33.8	33.8	35.0	35.0	52.7	52.7	43.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-104G INTERMEDIATE POWER
92 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-045-106-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB


F-104G INTERMEDIATE POWER
92 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-045-106-230176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL

USAF F-104D AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

F-104D AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-004-022
AIRCRAFT CODE: 045
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
AFTERBURNER 100% RPM	532-537
67% RPM	538-543
85% RPM	544-549
MILITARY 100% RPM	550-555

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

08 JAN 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-022
RUN 01
AIRCRAFT CODE 045
OPERATION CODE 01003
PROFILE VERSION A
08 JAN 76
PAGE C1

NOISE SOURCE/SUBJECT:
F-1040 AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
AFTERBURNER, MAX POWER
100% RPM, SINGLE ENGINE
DEFLECTED FLOW

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	90	92	91	92	93	95	94	95	96	97	98	101	106	115	118	117	105	95	85
63	93	95	93	94	95	96	96	98	98	100	101	103	109	119	121	119	106	96	86
80	95	97	95	96	97	98	98	99	100	102	102	106	112	122	124	120	109	99	89
100	96	99	99	99	99	100	100	103	103	104	106	109	116	126	126	122	110	100	90
125	100	102	101	101	100	101	102	103	104	106	109	112	117	127	129	124	109	99	89
160	101	102	104	102	103	104	104	105	105	107	110	114	119	126	129	126	109	99	89
200	100	100	101	100	100	102	102	103	104	105	109	113	120	124	124	122	106	96	86
250	100	101	99	100	101	102	102	103	106	108	111	114	122	127	122	119	104	94	84
315	98	100	101	103	104	105	105	106	107	110	113	118	122	129	124	119	104	94	84
400	96	100	104	102	103	104	105	105	105	107	111	116	121	124	123	118	99	89	79
500	94	98	100	99	101	101	102	104	107	108	110	116	120	125	120	115	99	89	79
630	97	99	101	102	103	102	106	106	106	108	110	117	121	124	121	116	98	88	78
800	93	95	98	97	100	99	100	102	103	104	106	113	117	120	116	110	96	86	76
1000	92	93	97	95	99	102	99	100	100	100	107	112	116	117	115	109	94	84	74
1250	90	91	94	93	97	104	97	97	96	99	110	109	114	115	112	106	93	83	73
1600	89	91	94	95	95	104	98	97	100	105	112	109	114	114	111	105	93	83	73
2000	90	93	97	97	95	103	101	104	105	109	112	111	112	113	110	104	91	81	71
2500	91	93	98	96	95	101	102	106	105	108	109	110	108	111	108	103	88	78	68
3150	86	89	93	93	94	100	101	102	103	105	108	109	108	111	108	102	88	78	68
4000	83	86	89	89	91	96	98	98	99	102	105	106	107	109	105	100	85	75	65
5000	81	83	88	87	88	94	94	96	97	101	103	104	106	106	103	97	82	72	62
6300	79	81	85	85	86	92	94	94	96	99	102	103	105	106	102	96	81	71	61
8000	75	78	82	82	82	89	90	91	93	95	99	99	103	103	99	93	77	67	57
10000	74	76	79	80	80	86	88	89	91	93	98	98	101	102	97	91	75	65	55
OVERALL	109	111	112	112	113	115	115	116	117	119	122	126	131	136	136	132	117	107	97

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-104D AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
AFTERBURNER, MAX POWER
100% RPM, SINGLE ENGINE
DEFLECTED FLOW

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-022
RUN 01
AIRCRAFT CODE 045
OPERATION CODE 01003
PROFILE VERSION A
08 JAN 76
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	118.6	120.6	123.8	123.2	123.5	127.9	128.1	130.1	130.3	133.2	136.3	137.7	140.7	145.2	142.5	138.3	123.1	113.1	103.0
250	116.4	118.5	121.7	121.0	121.3	125.7	125.8	127.9	128.1	131.0	134.1	135.5	138.5	143.1	140.4	136.3	121.0	111.0	100.9
315	114.2	116.2	119.4	118.8	119.1	123.5	123.5	125.6	125.9	128.7	131.8	133.2	136.3	140.9	138.2	134.1	118.9	108.9	98.7
400	111.9	114.0	117.1	116.5	116.7	121.2	121.2	123.3	123.5	126.4	129.5	130.8	134.1	138.8	136.0	131.9	116.7	106.6	96.5
500	109.6	111.6	114.7	114.1	114.3	118.8	118.8	120.9	121.1	124.0	127.1	128.4	131.8	136.5	133.8	129.6	114.3	104.3	94.1
630	107.1	109.1	112.2	111.6	111.9	116.4	116.2	118.4	118.6	121.4	124.6	125.8	129.5	134.2	131.4	127.1	111.9	101.8	91.5
800	104.4	106.5	109.6	109.0	109.4	113.8	113.6	115.7	115.9	118.7	122.0	123.2	127.0	131.8	129.0	124.5	109.3	99.2	88.9
1000	101.7	103.9	106.8	106.2	106.8	111.0	110.7	112.9	113.1	115.9	119.3	120.5	124.5	129.3	126.5	121.8	106.7	96.5	86.0
1250	98.7	101.1	103.8	103.3	104.1	108.1	107.7	109.8	110.1	112.9	116.3	117.8	121.7	126.3	123.8	118.9	103.7	93.5	82.9
1600	95.6	98.2	100.9	100.2	101.2	104.9	104.4	106.6	106.8	109.6	113.2	114.9	118.9	123.2	120.9	116.0	100.5	90.2	79.6
2000	92.4	95.2	97.9	97.1	98.2	101.5	100.8	103.0	103.2	106.2	109.7	111.8	115.9	119.8	117.9	113.0	97.1	86.7	76.1
2500	88.9	91.3	94.1	93.4	94.6	97.7	97.1	99.0	99.4	102.4	106.0	108.4	112.3	116.4	114.2	109.2	93.4	82.9	72.4
3150	85.2	87.3	89.8	89.7	90.9	93.6	93.4	94.5	95.1	98.1	101.8	104.8	108.7	112.5	110.1	105.2	89.2	78.7	68.2
4000	80.8	82.9	85.4	85.4	86.7	89.2	89.1	90.2	90.6	93.4	97.2	100.6	104.5	108.2	105.8	100.9	84.5	74.1	63.4
5000	76.1	78.2	80.7	80.7	82.0	84.3	84.3	85.4	85.8	88.2	92.3	95.9	99.8	103.5	101.1	96.1	79.7	69.2	58.2
6300	71.1	73.2	75.7	75.7	77.0	79.0	79.3	80.3	80.7	82.9	87.0	91.0	95.0	98.7	96.2	91.2	74.7	64.1	52.8
8000	67.1	69.1	71.6	71.6	73.0	74.1	75.1	76.2	76.7	78.6	82.0	87.0	91.1	95.0	92.5	87.5	70.9	60.2	48.5
10000	62.7	64.8	67.2	67.2	68.7	69.5	70.6	71.7	72.4	74.3	77.4	82.7	86.9	91.1	88.5	83.6	67.0	55.9	43.5
12500	57.8	60.0	62.3	62.3	63.9	64.4	65.8	66.8	67.8	69.6	72.7	78.3	82.3	86.9	84.2	79.3	62.7	51.2	38.0
16000	52.3	54.6	56.9	57.0	58.5	58.8	60.3	61.5	62.7	64.6	67.6	72.9	77.4	82.4	79.5	74.6	57.9	45.6	31.3
20000	46.0	49.0	51.4	50.9	52.5	53.0	54.4	55.4	57.1	59.0	62.0	67.2	72.1	77.4	74.6	69.7	52.6	39.5	20.5
25000	38.4	42.2	45.4	43.9	45.7	46.3	47.4	48.8	50.9	52.7	55.7	61.2	66.3	71.9	69.6	64.8	46.4	31.7	9.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-104D AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
AFTERBURNER, MAX POWER
100% RPM, SINGLE ENGINE
DEFLECTED FLOW

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-022
RUN 01
AIRCRAFT CODE 045
OPERATION CODE 01003
PROFILE VERSION A
08 JAN 76

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	119.8	120.6	124.4	124.5	124.5	127.9	129.5	131.3	130.3	133.2	136.3	137.7	140.7	145.8	142.5	139.5	123.1	113.1	103.0
250	117.6	118.5	122.2	122.3	122.3	125.7	127.3	129.1	128.1	131.0	134.1	135.5	138.5	143.7	140.4	137.4	121.0	111.0	100.9
315	115.4	116.2	120.0	120.0	120.1	123.5	125.0	126.8	125.9	128.7	131.8	133.2	136.3	141.5	138.2	135.3	118.9	108.9	98.7
400	113.1	114.0	117.7	117.7	117.7	121.2	122.6	124.5	123.5	126.4	129.5	130.8	134.1	139.3	136.0	133.1	116.7	106.6	96.5
500	110.7	111.6	115.3	115.4	115.3	118.8	120.2	122.1	121.1	124.0	127.1	128.4	131.8	137.1	133.8	130.7	114.3	104.3	94.1
630	108.2	109.1	112.8	112.9	112.9	116.4	117.7	119.5	118.6	121.4	124.6	125.8	129.5	134.8	131.4	128.3	111.9	101.8	91.5
800	105.6	106.5	110.2	110.2	110.4	113.8	115.0	116.9	115.9	118.7	122.0	123.2	127.0	132.4	129.0	125.7	109.3	99.2	88.9
1000	102.8	103.9	107.4	107.5	107.8	111.0	112.2	114.1	113.1	115.9	119.3	120.5	124.5	129.9	126.5	122.9	106.7	96.5	86.0
1250	99.8	101.1	104.4	104.5	105.1	108.1	109.1	111.0	110.1	112.9	116.3	117.8	121.7	126.9	123.8	120.0	103.7	93.5	82.9
1600	96.7	98.2	101.5	101.4	102.2	104.9	105.9	107.7	106.8	109.6	113.2	114.9	118.9	123.8	120.9	117.2	100.5	90.2	79.6
2000	93.6	95.2	98.5	98.3	99.2	101.5	102.3	104.2	103.2	106.2	109.7	111.8	115.9	120.4	117.9	114.1	97.1	86.7	76.1
2500	90.1	91.3	94.6	94.7	95.6	97.7	98.6	100.2	99.4	102.4	106.0	108.4	112.3	117.0	114.2	110.4	93.4	82.9	72.4
3150	86.3	87.3	90.4	91.0	91.9	93.6	94.8	95.7	95.1	98.1	101.8	104.8	108.7	113.1	110.1	106.4	89.2	78.7	68.2
4000	81.7	82.9	85.9	86.4	87.5	89.2	90.2	91.1	90.6	93.4	97.2	100.6	104.5	108.7	105.8	101.8	84.5	74.1	63.4
5000	76.8	78.2	81.0	81.4	82.6	84.3	85.1	86.1	85.8	88.2	92.3	95.9	99.8	103.9	101.1	96.8	79.7	69.2	58.2
6300	71.5	73.2	75.9	76.2	77.4	79.0	79.8	80.8	80.7	82.9	87.0	91.0	95.0	98.9	96.2	91.7	74.7	64.1	52.8
8000	67.3	69.1	71.7	71.8	73.2	74.1	75.4	76.4	76.7	78.6	82.0	87.9	91.1	95.1	92.5	87.7	70.9	60.2	48.5
10000	62.7	64.8	67.2	67.2	68.7	69.5	70.6	71.7	72.4	74.3	77.4	82.7	86.9	91.1	88.5	83.6	67.0	55.9	43.5
12500	57.8	60.0	62.3	62.3	63.9	64.4	65.8	66.8	67.8	69.6	72.7	78.0	82.3	86.9	84.2	79.3	62.7	51.2	38.6
16000	52.3	54.6	56.9	57.0	58.5	58.8	60.3	61.5	62.7	64.6	67.6	72.9	77.4	82.4	79.5	74.6	57.9	45.6	31.3
20000	46.0	48.0	51.4	50.9	52.5	53.0	54.4	55.4	57.1	59.0	62.0	67.2	72.1	77.4	74.6	69.7	52.6	39.5	20.5
25000	38.4	42.2	45.4	43.9	45.7	46.3	47.4	48.8	50.9	52.7	55.7	61.2	66.3	71.9	69.6	64.8	46.4	31.7	9.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-022
RUN 01
AIRCRAFT CODE 045
OPERATION CODE 01003
PROFILE VERSION A
08 JAN 76
PAGE F1

NOISE SOURCE/SUBJECT:
F-104C AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
AFTERBURNER, MAX POWER
100% RPM, SINGLE ENGINE
DEFLECTED FLOW

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	104.9	107.2	110.1	109.8	110.9	114.7	113.9	115.6	116.1	118.9	122.7	124.8	128.5	131.9	129.0	124.2	108.6	98.6	88.6
250	102.9	105.1	108.0	107.7	108.8	112.6	111.8	113.4	114.0	116.8	120.5	122.6	126.4	129.8	126.9	122.1	106.5	96.5	86.5
315	100.7	102.9	105.8	105.5	106.6	110.4	109.6	111.2	111.8	114.5	118.4	120.5	124.3	127.7	124.9	120.0	104.5	94.5	84.5
400	98.6	100.8	103.7	103.4	104.5	108.2	107.3	109.0	109.6	112.3	116.1	118.3	122.2	125.6	122.7	117.9	102.3	92.3	82.3
500	96.4	98.6	101.4	101.1	102.3	105.9	105.1	106.7	107.3	110.0	113.8	116.1	120.0	123.5	120.6	115.7	100.1	90.1	80.1
630	94.1	96.3	99.2	98.9	100.1	103.6	102.7	104.3	104.9	107.6	111.5	113.9	117.8	121.3	118.4	113.5	97.9	87.9	77.9
800	91.8	94.0	96.8	96.6	97.8	101.2	100.3	101.9	102.5	105.1	109.1	111.6	115.5	119.1	116.1	111.2	95.5	85.5	75.5
1000	89.3	91.6	94.5	94.2	95.4	98.7	97.8	99.4	100.0	102.5	106.5	109.2	113.2	116.7	113.7	108.8	93.1	83.1	73.1
1250	86.8	89.1	92.0	91.6	93.0	96.1	95.2	96.7	97.3	99.9	103.9	106.7	110.7	114.2	111.2	106.2	90.4	80.4	70.4
1600	84.2	86.5	89.4	89.0	90.4	93.4	92.5	94.0	94.6	97.1	101.1	104.1	108.2	111.6	108.6	103.5	87.7	77.7	67.7
2000	81.4	83.9	86.7	86.3	87.8	90.5	89.8	91.1	91.8	94.2	98.2	101.5	105.6	108.9	105.9	100.8	84.8	74.8	64.8
2500	78.4	80.8	83.6	83.3	84.9	87.4	86.7	88.0	88.7	91.0	95.0	98.6	102.6	105.9	102.9	97.6	81.6	71.6	61.6
3150	75.2	77.5	80.3	80.0	81.7	84.0	83.4	84.6	85.3	87.5	91.6	95.4	99.4	102.6	99.5	94.2	78.2	68.2	58.2
4000	71.5	73.8	76.5	76.2	78.0	80.2	79.7	80.9	81.5	83.6	87.7	91.8	95.8	98.9	95.7	90.4	74.4	64.4	54.4
5000	67.4	69.5	72.3	72.0	73.9	76.0	75.5	76.6	77.3	79.2	83.5	87.6	91.7	94.7	91.5	86.1	70.2	60.2	50.2
6300	63.0	65.1	67.9	67.6	69.6	71.5	71.0	72.1	72.8	74.6	78.8	83.3	87.3	90.3	87.1	81.7	65.7	55.7	45.7
8000	59.2	61.3	64.0	63.7	65.8	67.1	67.2	68.2	69.0	70.6	74.5	79.5	83.5	86.7	83.4	78.1	62.0	52.0	42.0
10000	55.0	57.3	59.9	59.6	61.6	62.4	63.0	64.1	64.9	66.4	69.9	75.4	79.4	82.7	79.5	74.3	58.0	48.0	38.0
12500	50.5	52.9	55.5	55.2	57.0	57.4	58.5	59.6	60.4	62.0	65.0	70.9	74.9	78.4	75.2	70.1	53.7	43.7	33.7
16000	45.6	48.1	50.6	50.3	52.0	52.1	53.5	54.7	55.6	57.1	59.9	65.9	70.0	73.7	70.5	65.5	49.2	39.2	29.2
20000	40.2	42.8	45.2	44.9	46.5	46.4	48.0	49.2	50.2	51.8	54.4	60.4	64.6	68.5	65.5	60.6	44.4	34.4	24.4
25000	34.4	37.0	39.3	38.9	40.4	40.4	41.9	43.1	44.2	45.9	49.5	54.3	58.6	62.9	60.1	55.4	39.5	29.5	19.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-104D AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
AFTERBURNER, MAX POWER
100% RPM, SINGLE ENGINE
DEFLECTED FLOW

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-022
RUN 01
AIRCRAFT CODE 045
OPERATION CODE 01003
PROFILE VERSION A
08 JAN 76
PAGE 61

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	106.1	107.2	110.6	111.0	111.9	114.7	115.4	116.7	116.1	118.9	122.7	124.8	128.5	132.5	129.0	125.3	109.6	98.6	88.6
250	104.0	105.1	108.5	108.9	109.8	112.6	113.2	114.6	114.0	116.8	120.5	122.6	126.4	130.4	126.9	123.3	106.5	96.5	86.5
315	101.9	102.9	106.4	106.8	107.7	110.4	111.0	112.4	111.8	114.5	118.4	120.5	124.3	128.3	124.9	121.2	104.5	94.5	84.5
400	99.6	100.8	104.2	104.6	105.5	108.2	108.8	110.1	109.6	112.3	116.1	118.3	122.2	126.2	122.7	119.1	102.3	92.3	82.3
500	97.6	98.6	102.0	102.4	103.3	105.9	106.5	107.8	107.3	110.0	113.8	116.1	120.0	124.1	120.6	116.9	100.1	90.1	80.1
630	95.3	96.3	99.7	100.1	101.1	103.6	104.2	105.5	104.9	107.6	111.5	113.9	117.8	121.9	118.4	114.6	97.9	87.9	77.9
800	92.9	94.0	97.4	97.8	98.8	101.2	101.8	103.1	102.5	105.1	109.1	111.6	115.5	119.6	116.1	112.3	95.5	85.5	75.5
1000	90.5	91.6	95.0	95.4	96.5	98.7	99.3	100.5	100.0	102.6	106.5	109.2	113.2	117.3	113.7	109.9	93.1	83.1	73.1
1250	88.0	89.1	92.5	92.9	94.0	96.1	96.7	97.9	97.3	99.9	103.9	106.7	110.7	114.8	111.2	107.3	90.4	80.4	70.4
1600	85.3	86.5	89.9	90.3	91.5	93.4	94.0	95.2	94.6	97.1	101.1	104.1	108.2	112.2	108.6	104.7	87.7	77.7	67.7
2000	82.6	83.9	87.3	87.6	88.8	90.5	91.2	92.3	91.8	94.2	98.2	101.5	105.6	109.5	105.9	101.9	84.8	74.8	64.8
2500	79.6	80.8	84.2	84.5	85.9	87.4	88.2	89.2	88.7	91.0	95.0	98.6	102.6	106.5	102.9	98.8	81.6	71.6	61.6
3150	76.3	77.5	80.9	81.2	82.7	84.0	84.9	85.8	85.3	87.5	91.6	95.4	99.4	103.5	99.5	95.4	78.2	68.2	58.2
4000	72.4	73.8	77.3	77.2	78.9	80.2	80.9	81.8	81.5	83.6	87.7	91.8	95.8	99.3	95.7	91.3	74.4	64.4	54.4
5000	68.1	69.5	72.7	72.8	74.6	76.0	76.3	77.3	77.3	79.2	83.5	87.6	91.7	95.0	91.5	86.8	70.2	60.2	50.2
6300	63.4	65.1	68.1	68.1	70.0	71.5	71.6	72.6	72.8	74.6	78.8	83.3	87.3	90.5	87.1	82.2	65.7	55.7	45.7
8000	59.4	61.3	64.1	64.0	66.0	67.1	67.5	68.5	69.0	70.6	74.5	79.5	83.5	86.8	83.4	78.3	62.0	52.0	42.0
10000	55.0	57.3	59.9	59.6	61.6	62.4	63.0	64.1	64.9	66.4	69.9	75.4	79.4	82.7	79.5	74.3	58.0	48.0	38.0
12500	50.5	52.9	55.5	55.2	57.0	57.4	58.5	59.6	60.4	62.0	65.0	70.9	74.9	78.4	75.2	70.1	53.7	43.7	33.7
16000	45.6	48.1	50.6	50.3	52.0	52.1	53.5	54.7	55.6	57.1	59.9	65.9	70.0	73.7	70.5	65.5	49.2	39.2	29.2
20000	40.2	42.8	45.2	44.9	46.5	46.4	48.0	49.2	50.2	51.8	54.4	60.4	64.6	68.5	65.5	60.6	44.4	34.4	24.4
25000	34.4	37.0	39.3	38.9	40.4	40.4	41.9	43.1	44.2	45.9	48.5	54.3	58.6	62.9	60.1	55.4	39.5	29.5	19.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

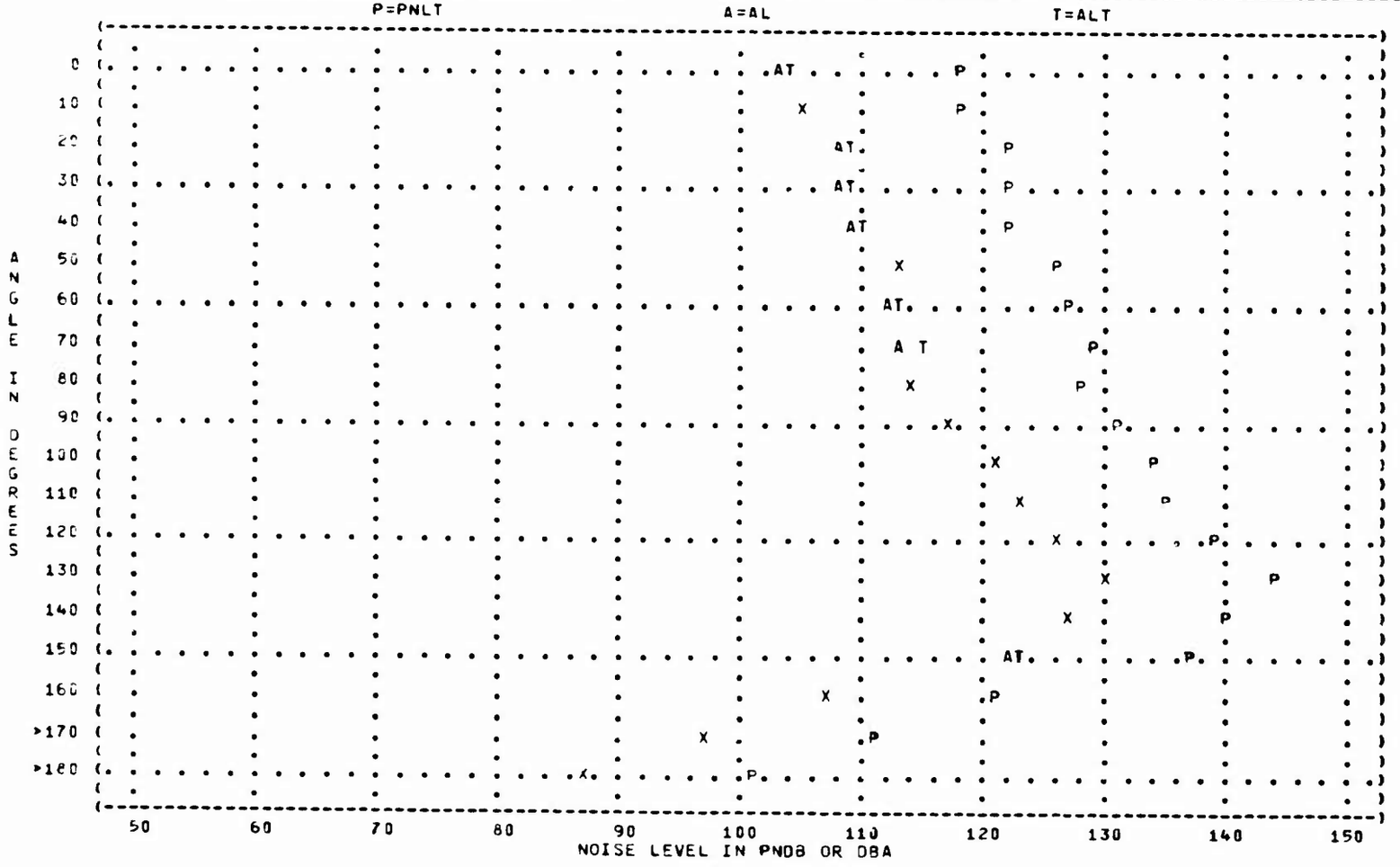
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-104D AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
AFTERBURNER, MAX POWER
100% RPM, SINGLE ENGINE
DEFLECTED FLOW

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-022
RUN 01
AIRCRAFT CODE 045
OPERATION CODE 01003
PROFILE VERSION A
08 JAN 76
PAGE J1



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-021
RUN C1
AIRCRAFT CODE 045
OPERATION CODE 01013
PROFILE VERSION A
30 DEC 75
PAGE C1

NOISE SOURCE/SUBJECT:
F-1040 AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
IDLE, 67% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	78	78	77	80	82	83	81	79	78	77	76	78	80	81	81	80	79	74	74
63	70	68	76	71	74	74	75	71	70	70	72	73	75	76	76	74	73	69	68
80	76	70	72	75	76	75	76	74	75	74	72	74	77	77	77	79	77	65	66
100	71	69	70	72	72	72	74	67	71	72	72	72	74	75	76	75	73	64<	64<
125	71	70	71	74	71	69	74	74	75	74	75	76	76	76	76	74	69	62<	62<
160	73	70	73	73	71	73	76	75	75	75	77	77	77	78	77	75	73	60<	60<
200	69	66	67	68	67	67	70	66	69	69	70	72	74	73	71	68	68	58<	58<
250	67	65	65	66	64	65	65	65	67	68	69	72	74	74	72	67	64	56<	56<
315	68	67	69	67	64	65	65	65	67	68	70	73	77	75	74	69	67	55<	53<
400	70	73	72	70	69	69	67	68	70	72	73	76	77	77	73	69	67	53	51
500	74	81	78	75	71	71	72	69	70	70	73	73	74	73	70	67	68	56	48
630	78	80	82	76	76	75	71	71	65	66	69	70	72	69	69	66	69	55	52
800	68	71	70	68	69	65	64	63	64	65	68	70	72	69	65	64	62	46	46
1000	69	69	65	66	64	64	63	62	63	63	65	68	67	64	61	60	59	44	44
1250	69	69	69	66	67	68	64	63	64	64	66	69	66	62	61	60	60	44	42
1600	73	74	72	74	72	78	73	72	72	69	66	68	69	69	65	64	70	54	47
2000	74	74	71	77	71	79	73	71	71	69	66	67	68	68	64	64	68	53	48
2500	77	77	74	80	73	79	71	69	67	68	66	65	67	65	61	64	63	51	49
3150	70	68	67	67	68	68	66	64	63	63	64	63	65	62	58	60	59	46	44
4000	68	66	67	66	68	68	67	63	62	62	65	64	67	64	60	60	59	45	43
5000	65	64	61	63	64	65	61	60	59	60	63	63	67	64	59	59	55	41	39
6300	62	62	60	62	63	62	59	58	58	60	63	65	67	64	58	58	54	40	39
8000	62	61	59	62	62	61	58	57	56	58	61	63	65	63	58	57	55	41	38
10000	57	57	54	57	58	56	52	51	52	54	56	59	59	57	53	55	54	38	34
OVERALL	88	87	87	87	86	88	85	84	84	84	85	86	87	87	87	85	84	76	76

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-1040 AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
IDLE, 67% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-021
RUN 01
AIRCRAFT CODE 045
OPERATION CODE 01013
PROFILE VERSION A
30 DEC 75
PAGE D1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	100.7	100.3	98.5	101.3	97.8	101.0	96.7	94.6	94.7	94.6	94.5	95.4	97.4	96.1	93.0	92.3	92.5	78.8	76.8
250	96.4	98.0	96.2	99.1	95.6	98.8	94.4	92.3	92.4	92.3	92.2	93.2	95.0	93.9	90.7	90.0	90.2	76.5	74.5
315	96.1	95.7	94.0	96.8	93.2	96.4	92.1	90.0	90.1	90.0	89.9	91.0	92.7	91.5	88.5	87.6	87.9	74.2	72.1
400	93.6	93.4	91.6	94.4	90.8	94.1	89.7	87.7	87.8	87.6	87.5	88.6	90.2	89.3	86.1	85.2	85.5	71.8	69.7
500	91.3	90.9	89.1	91.9	88.3	91.0	87.2	85.2	85.3	85.1	85.0	86.2	87.8	86.9	83.7	82.7	83.1	69.3	67.2
630	88.8	88.4	86.6	89.3	85.7	89.0	84.7	82.7	82.8	82.5	82.4	83.7	85.3	84.4	81.2	80.1	80.5	66.7	64.5
800	86.1	85.7	83.9	86.6	83.0	86.3	82.0	80.0	80.1	79.8	79.6	81.1	82.7	81.9	78.6	77.3	77.9	63.9	61.7
1000	83.2	82.8	81.1	83.8	80.1	83.4	79.2	77.2	77.3	76.9	76.8	78.4	80.0	79.2	75.9	74.4	75.1	60.9	58.5
1250	80.2	79.8	78.3	80.7	77.0	80.4	76.2	74.2	74.3	73.8	73.9	75.6	77.1	76.3	73.1	71.3	72.1	57.6	54.9
1600	77.4	76.5	75.4	77.4	73.7	77.1	72.9	70.9	71.1	70.4	70.9	72.0	74.1	73.4	70.1	67.9	68.9	54.0	50.9
2000	74.3	73.0	72.3	73.7	69.9	73.4	69.4	67.5	67.7	66.7	67.7	69.4	70.9	70.2	66.9	64.5	65.4	49.9	46.2
2500	71.0	69.9	69.0	69.7	65.8	69.4	65.4	63.6	63.8	62.7	63.9	65.4	66.9	66.1	62.7	60.2	61.5	44.7	41.0
3150	67.1	65.6	65.4	65.1	61.8	65.0	61.1	59.3	59.5	58.2	59.5	60.8	62.3	61.5	58.1	55.6	57.1	38.5	34.2
4000	62.7	61.1	61.1	59.7	57.2	60.1	56.2	54.3	54.6	53.1	54.6	55.8	57.2	56.3	52.6	49.9	52.1	32.4	26.9
5000	57.8	56.1	56.1	53.7	51.0	54.8	50.5	48.9	49.2	47.2	49.3	50.6	51.8	50.3	46.6	43.5	46.1	24.2	13.8
6300	52.6	51.1	51.0	48.1	46.2	49.0	43.8	41.8	42.2	40.9	43.1	44.5	46.0	43.7	40.3	36.9	39.1	13.4	.8
8000	48.2	46.0	46.6	42.7	41.1	42.0	37.5	36.1	35.8	35.5	37.9	39.3	41.1	38.2	34.8	31.4	33.1	2.6	
10000	43.5	41.5	41.1	36.8	35.1	35.7	31.2	28.6	28.8	28.7	32.0	34.1	35.3	32.9	28.5	23.0	26.0		
12500	37.5	35.1	34.7	29.0	27.9	27.3	22.7	19.5	20.4	20.0	25.9	26.9	29.2	27.2	20.4	15.0	16.0		
16000	31.4	29.0	27.9	20.6	19.1	18.1	14.9	10.8	10.3	10.3	16.5	18.0	21.3	18.0	11.3	7.0	6.1		
20000	25.3	21.5	19.6	13.9	7.7	8.9	7.0	2.1	.3	.1	7.1	6.8	10.5	8.5	2.2				
25000	15.2	9.9	11.3	1.2															

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-104C AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
IDLE, 67% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-021
RUN 01
AIRCRAFT CODE 045
OPERATION CODE 01013
PROFILE VERSION A
30 DEC 75
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	103.9	102.2	101.0	103.9	99.8	103.-	98.-	96.2	96.3	95.2	95.2	96.1	97.4	97.6	93.5	92.9	94.3	80.8	78.5
250	101.7	100.0	98.7	101.6	97.6	101.1	96.1	93.9	94.1	92.9	92.9	93.9	95.0	95.4	91.3	90.6	92.0	78.5	76.2
315	99.4	97.7	96.5	99.3	95.2	98.8	93.8	91.6	91.0	90.6	90.6	91.6	92.7	93.1	89.0	88.3	89.7	76.1	73.9
400	97.0	95.3	94.1	96.9	92.8	96.4	91.4	89.3	89.4	88.2	88.2	89.3	90.2	90.8	86.7	85.8	87.3	73.7	71.4
500	94.6	92.9	91.6	94.5	90.3	93.9	88.9	86.8	87.0	85.7	85.7	86.9	87.8	88.4	84.3	83.3	84.9	71.3	68.9
630	92.0	90.3	89.1	91.9	87.7	91.4	86.3	84.3	84.4	83.1	83.1	84.3	85.3	85.9	81.8	80.7	82.3	68.6	66.3
800	89.3	87.6	86.4	89.2	85.0	88.7	83.7	81.6	81.8	80.4	80.3	81.5	82.7	83.3	79.2	77.9	79.7	65.9	63.4
1000	86.5	84.8	83.0	86.3	82.1	85.3	80.6	78.8	78.9	77.5	77.5	79.1	80.0	80.6	76.5	75.0	76.9	62.8	60.2
1250	83.5	81.8	80.8	83.3	79.0	82.7	77.9	75.8	76.0	74.4	74.7	76.2	77.1	77.8	73.7	71.9	73.9	59.5	56.7
1600	80.6	78.9	77.9	80.8	75.7	79.4	74.0	72.5	72.8	71.0	71.6	73.2	74.1	74.8	70.7	68.5	70.7	56.3	52.6
2000	77.6	74.9	74.8	78.3	71.9	75.7	71.0	69.1	69.4	67.4	68.4	70.0	70.9	71.6	67.4	65.2	67.2	51.8	47.9
2500	74.3	71.5	71.5	72.2	67.8	71.7	67.0	65.2	65.5	63.4	64.6	66.3	66.9	67.6	63.3	60.9	63.3	46.7	42.8
3150	70.3	67.6	67.9	67.6	63.8	67.4	62.7	60.9	61.2	58.8	60.2	61.4	62.3	63.0	58.6	56.2	58.9	40.5	35.9
4000	65.3	62.7	63.1	61.7	58.8	62.8	57.5	55.6	55.9	53.6	55.2	56.3	57.2	57.4	53.1	50.4	53.6	34.0	28.2
5000	59.7	57.3	57.3	55.3	53.6	56.2	51.5	49.9	50.2	47.6	49.8	51.0	51.8	51.2	46.9	43.9	47.2	25.3	19.9
6300	53.9	51.8	52.0	49.1	47.0	50.0	44.5	42.4	42.8	41.2	43.4	44.8	46.0	44.3	40.5	37.2	39.8	14.2	1.5
8000	48.9	47.0	47.1	43.2	41.5	42.5	37.9	36.4	36.1	35.7	38.1	39.5	41.1	38.5	34.9	31.5	33.4	3.0	
10000	43.5	41.5	41.1	36.8	35.1	35.7	31.2	28.6	28.8	28.7	32.0	34.1	35.3	32.9	28.5	23.0	26.0		
12500	37.5	35.1	34.7	29.0	27.9	27.3	22.7	19.5	20.-	20.6	25.9	26.9	29.2	27.2	20.4	15.0	16.0		
16000	31.4	29.0	27.9	20.6	19.1	18.1	14.9	13.8	13.3	13.3	18.5	18.5	21.3	18.0	11.3	7.0	6.1		
20000	25.3	21.5	19.0	13.9	7.7	8.9	7.0	2.1	.0	.1	7.1	6.8	13.5	8.5	2.2				
25000	19.2	9.9	11.3	1.2															

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-104D AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
IDLE, 67% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-304-021
RUN 01
AIRCRAFT CODE 045
OPERATION CODE 01013
PROFILE VERSION A
30 DEC 75
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	87.6	87.0	85.9	86.9	83.5	87.5	82.0	80.8	80.7	80.0	80.5	81.9	83.3	81.8	78.8	77.1	78.3	64.6	61.7
250	85.4	84.9	83.8	84.8	81.3	85.3	80.5	78.7	78.5	77.8	78.3	79.8	81.2	79.7	76.7	75.0	76.2	62.4	59.6
315	83.3	82.7	81.6	82.6	79.1	83.1	78.3	76.5	76.3	75.7	76.2	77.6	79.0	77.5	74.5	72.8	74.0	60.3	57.5
400	81.1	80.5	79.5	80.3	76.9	80.9	76.0	74.3	74.1	73.4	73.9	75.4	76.8	75.4	72.4	70.6	71.8	58.1	55.3
500	78.9	78.3	77.3	78.0	74.6	78.6	73.7	72.0	71.8	71.2	71.7	73.2	74.5	73.1	70.2	68.3	69.6	55.9	53.1
630	76.6	76.0	75.0	75.6	72.2	76.2	71.4	69.6	69.5	68.8	69.4	70.9	72.2	70.8	67.9	66.0	67.3	53.6	50.7
800	74.3	73.7	72.7	73.1	69.8	73.7	68.9	67.2	67.1	66.4	67.0	68.6	69.9	68.5	65.6	63.6	64.9	51.2	48.3
1000	71.9	71.3	70.4	70.5	67.3	71.1	66.3	64.7	64.6	63.9	64.6	66.2	67.5	66.1	63.2	61.1	62.4	48.7	45.8
1250	69.4	68.8	68.0	67.8	64.6	68.3	63.7	62.0	62.0	61.3	62.0	63.7	64.9	63.6	60.7	58.5	59.9	46.1	43.2
1600	66.9	66.2	65.5	64.9	61.9	65.4	60.9	59.3	59.2	58.6	59.4	61.1	62.3	61.0	58.0	55.8	57.2	43.4	40.4
2000	64.3	63.5	62.9	61.9	59.1	62.4	57.9	56.4	56.3	55.8	56.8	58.4	59.7	58.3	55.3	53.0	54.3	40.5	37.4
2500	61.5	60.7	60.2	58.6	56.1	59.0	54.8	53.2	53.2	52.5	53.7	55.4	56.6	55.0	52.1	49.8	51.2	37.5	34.1
3150	58.2	57.4	57.2	55.1	52.8	55.4	51.2	49.8	49.6	49.0	50.3	52.0	53.1	51.4	48.6	46.3	47.8	34.0	30.6
4000	54.4	53.7	53.6	51.1	49.1	51.4	47.3	46.0	45.7	45.0	45.5	48.2	49.4	47.4	44.7	42.4	44.0	30.1	26.7
5000	50.2	49.5	49.4	46.6	44.9	46.8	42.9	41.6	41.3	40.7	42.3	44.0	45.1	43.0	40.3	38.1	39.7	25.8	22.3
6300	45.7	45.0	45.0	41.8	40.3	41.8	38.2	36.9	36.8	36.0	37.8	39.8	40.7	38.4	35.7	33.6	35.0	21.2	17.8
8000	42.2	41.3	41.3	37.6	36.3	37.0	33.9	32.7	32.2	31.9	34.1	35.7	36.9	34.7	32.1	29.7	30.9	17.4	14.1
10000	38.4	37.4	37.4	33.3	32.1	32.1	29.5	28.2	27.8	27.7	30.0	31.5	32.9	30.7	28.2	25.7	26.6	13.4	10.2
12500	34.2	33.1	33.1	28.8	27.5	27.2	24.9	23.6	23.2	23.3	25.7	27.1	28.5	26.5	24.0	21.3	22.1	9.2	6.2
16000	29.6	28.3	28.2	23.8	22.5	22.0	20.1	18.7	18.3	18.5	21.0	22.3	23.7	22.0	19.5	16.7	17.3	4.8	2.0
20000	24.4	22.9	22.7	18.3	16.9	16.4	14.9	13.3	13.2	13.5	15.8	17.1	18.6	17.1	14.7	11.9	12.2	.2	
25000	18.5	16.8	16.3	12.2	10.7	10.4	9.3	7.6	7.8	8.1	10.2	11.4	12.9	11.9	9.5	6.9	6.7		

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-021
RUN 01
AIRCRAFT CODE 045
OPERATION CODE 01013
PROFILE VERSION A
30 DEC 75
PAGE G1

NOISE SOURCE/SUBJECT:
F-104D AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
IDLE, 67% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 71 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																	
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	90.8	89.0	88.4	89.5	85.5	89.9	84.3	82.4	82.3	81.6	81.2	82.6	83.3	83.3	79.3	77.7	80.1	66.5	63.4
250	88.7	86.9	86.3	87.3	83.3	87.7	82.2	80.3	80.2	79.5	79.0	80.4	81.2	81.2	77.2	75.5	78.0	64.4	61.3
315	86.5	84.7	84.1	85.1	81.1	85.5	80.0	78.1	78.0	76.3	76.9	78.2	79.0	79.0	75.1	73.4	75.8	62.3	59.2
400	84.3	82.5	82.0	82.9	78.9	83.2	77.7	75.9	75.8	74.1	74.7	76.1	76.8	76.8	73.0	71.2	73.6	60.1	57.0
500	82.1	80.3	79.8	81.5	76.6	80.9	75.4	73.6	73.5	71.8	72.4	73.8	74.5	74.6	70.8	68.9	71.4	57.8	54.8
630	79.8	78.0	77.5	78.1	74.2	78.5	73.0	71.2	71.2	69.4	70.1	71.5	72.2	72.3	68.5	66.6	69.1	55.5	52.5
800	77.5	75.7	75.2	75.7	71.8	76.0	70.8	68.8	68.8	67.0	67.7	69.2	69.9	70.0	66.2	64.2	66.7	53.2	50.1
1000	75.1	73.2	72.9	73.1	69.3	73.4	68.0	66.3	66.3	64.5	65.3	66.8	67.5	67.5	63.8	61.7	64.2	50.7	47.6
1250	72.7	70.8	70.5	70.3	66.6	70.7	65.3	63.7	63.6	61.9	62.7	64.3	64.9	65.0	61.2	59.1	61.7	48.1	44.9
1600	70.1	68.2	68.0	67.5	63.9	67.8	62.5	60.9	60.9	59.2	60.1	61.7	62.3	62.4	58.6	56.4	59.0	45.4	42.1
2000	67.5	65.5	65.4	64.4	61.1	64.7	59.0	58.0	58.0	56.4	57.5	59.1	59.7	59.8	55.9	53.6	56.1	42.5	39.1
2500	64.7	62.7	62.7	61.2	58.1	61.4	56.4	54.9	54.8	53.2	54.4	56.0	56.6	56.5	52.7	50.4	53.0	39.4	35.9
3150	61.4	59.4	59.7	57.7	54.8	57.8	52.9	51.4	51.3	49.6	51.0	52.6	53.1	52.9	49.2	46.9	49.7	36.0	32.3
4000	57.6	55.3	55.6	53.2	50.7	53.2	48.7	47.3	47.3	45.5	47.1	48.7	49.4	48.5	45.1	42.9	45.5	31.7	28.1
5000	52.1	50.7	50.9	48.2	46.1	48.2	43.9	42.6	42.3	41.0	42.7	44.4	45.1	43.9	40.6	38.5	40.8	27.0	23.4
6300	47.6	45.8	46.0	42.9	41.1	42.7	38.9	37.6	37.2	36.3	38.1	39.8	40.7	39.0	36.0	33.8	35.8	22.0	18.5
8000	42.8	41.7	41.8	38.1	36.7	37.5	34.2	33.6	32.6	32.1	34.2	35.6	36.9	35.6	32.2	29.9	31.3	17.8	14.4
10000	38.4	37.4	37.4	33.3	32.1	32.1	29.5	28.2	27.6	27.7	30.0	31.5	32.9	30.7	28.2	25.7	26.6	13.4	10.2
12500	34.2	33.1	33.1	28.8	27.5	27.2	24.9	23.6	23.2	23.3	25.7	27.1	28.5	26.5	24.0	21.3	22.1	9.2	6.2
16000	29.6	28.3	28.2	23.8	22.5	22.3	20.1	18.7	18.3	18.5	21.0	22.3	23.7	22.0	19.5	16.7	17.3	4.8	2.0
20000	24.4	22.9	22.7	18.3	16.9	16.4	14.9	13.3	13.2	13.5	15.8	17.1	18.6	17.1	14.7	11.9	12.2	.2	
25000	18.5	16.8	16.3	12.2	10.7	10.4	9.3	7.6	7.8	8.1	10.2	11.4	12.9	11.9	9.5	6.9	6.7		

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-104G AIRCRAFT
ENG: J79-GE-7
GROUND RUNUP

OPERATION:
IDLE, 67% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-021
RUN 01
AIRCRAFT CODE 045
OPERATION CODE 01013
PROFILE VERSION A
30 DEC 75
PAGE J1

P=PNLT A=AL T=ALT

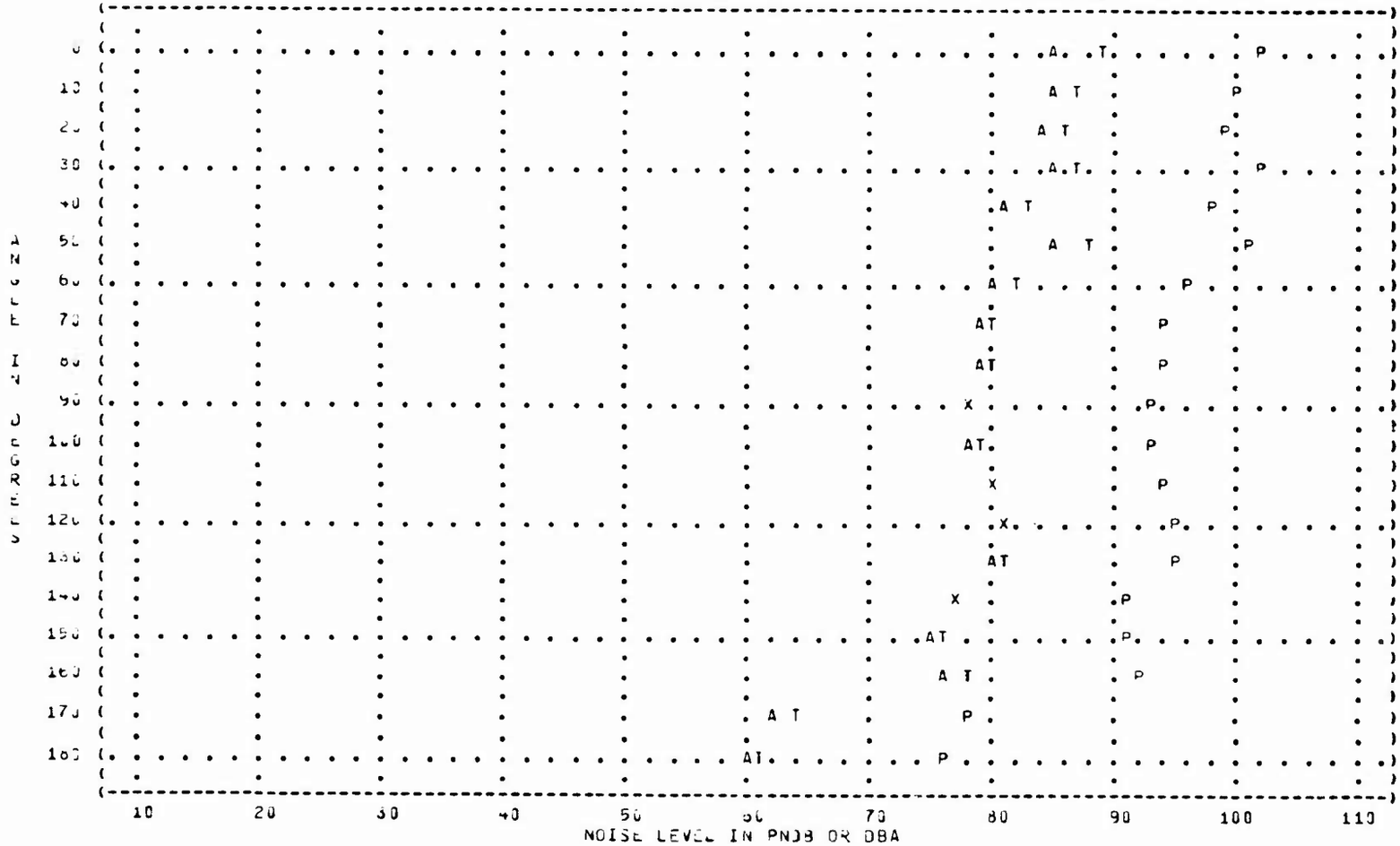


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-021
RUN 02
AIRCRAFT CODE 045
OPERATION CODE 01018
PROFILE VERSION A
30 DEC 79
PAGE C2

NOISE SOURCE/SUBJECT:
F-104G AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	74	70	73	72	75	74	76	79	78	78	80	80	83	84	86	88	87	79	59
63	73	71	72	73	75	74	75	77	77	76	78	79	82	83	85	86	86	76	56
80	73	73	73	75	75	75	76	75	73	74	76	77	80	81	82	85	83	71	51
100	78	77	77	80	78	78	76	76	78	79	80	81	82	83	83	86	83	70	50
125	76	77	77	80	77	75	77	81	80	79	81	81	82	82	83	85	81	67	47
160	78	78	81	79	75	75	80	80	80	81	81	82	83	84	83	84	80	65	45
200	78	76	79	76	74	76	78	78	78	79	79	80	82	82	80	78	77	63<	43
250	80	77	76	79	75	76	79	77	80	81	80	81	80	80	81	75	77	61	41
315	76	71	76	72	72	73	74	75	75	77	78	79	83	83	82	79	80	60	40
400	76	78	79	82	82	82	82	83	85	86	85	86	85	89	86	88	85	60	40
500	76	78	77	77	78	76	79	80	80	81	81	82	83	81	81	79	76	57	37
630	75	74	73	72	70	69	71	73	72	74	76	77	78	77	76	74	73	56	36
800	75	75	70	71	69	67	70	73	73	74	76	76	77	76	74	73	69	52	32
1000	72	71	66	69	65	63	68	70	69	70	72	72	73	72	70	69	65	49	29
1250	73	68	69	70	67	65	67	69	65	69	70	70	72	69	67	65	63	46	26
1600	74	70	71	74	67	67	68	70	66	68	70	70	72	69	67	66	64	45	25
2000	85	75	73	77	68	70	73	77	70	69	70	71	74	72	66	65	71	53	33
2500	68	79	76	79	72	77	71	74	71	68	69	69	72	70	70	66	67	55	35
3150	83	73	74	77	67	70	68	70	68	66	67	66	67	66	65	62	64	47	27
4000	79	73	72	78	67	69	69	71	66	67	68	69	68	66	66	63	64	53	33
5000	77	76	71	76	65	67	67	66	66	66	66	69	67	64	64	62	62	48	28
6300	76	68	68	74	63	66	64	66	66	65	66	68	67	64	63	61	61	43	23
8000	74	67	68	72	62	64	62	66	65	68	70	71	70	66	65	63	63	45	25
10000	70	62	63	67	58	59	58	60	60	62	65	66	67	63	61	59	58	41	21
OVERALL	93	86	89	90	86	88	89	90	91	91	92	92	94	94	94	95	93	82	62

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-021
RUN 02
AIRCRAFT CODE 045
OPERATION CODE 01018
PROFILE VERSION A
30 DEC 75
PAGE D2

NOISE SOURCE/SUBJECT:
F-1040 AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	109.3	102.7	102.5	104.0	98.6	100.6	99.4	101.6	100.9	101.5	101.9	102.7	103.2	103.9	102.3	102.3	100.8	83.0	61.4
250	107.6	100.4	100.2	102.4	96.4	98.4	97.2	99.4	98.7	99.3	99.7	100.5	101.0	101.8	100.2	100.2	98.6	80.7	58.8
315	104.7	98.1	97.9	100.0	94.1	96.1	95.0	97.1	96.5	97.1	97.5	98.3	98.8	99.6	98.3	98.0	96.4	78.3	56.2
400	102.3	95.7	95.6	97.6	91.7	93.7	92.7	94.8	94.3	94.9	95.3	96.0	96.6	97.3	95.7	95.8	94.2	75.8	53.4
500	99.6	93.2	93.1	95.1	89.3	91.2	90.3	92.3	91.9	92.5	92.9	93.7	94.2	95.0	93.4	93.5	91.8	73.3	50.3
630	97.2	90.8	90.9	92.5	86.9	88.8	87.9	89.8	89.5	90.1	90.4	91.2	91.8	92.7	91.0	91.1	89.4	70.7	47.0
800	94.4	87.9	87.7	89.7	84.4	85.9	85.3	87.1	87.0	87.6	87.9	88.7	89.2	90.2	88.5	88.6	86.9	67.9	43.1
1000	91.5	85.0	84.7	86.7	81.7	83.0	82.7	84.3	84.3	85.0	85.3	86.1	86.6	87.6	85.9	86.0	84.3	65.0	38.5
1250	88.5	81.8	81.6	83.5	78.9	79.6	79.9	81.4	81.6	82.2	82.5	83.3	83.8	85.0	83.1	83.3	81.6	61.7	33.4
1600	84.9	78.5	78.2	80.0	76.1	76.7	77.0	78.5	78.7	79.4	79.7	80.4	80.9	82.2	80.3	80.5	78.7	58.1	26.7
2000	81.2	74.8	74.5	76.3	73.0	73.6	73.9	75.3	75.7	76.4	76.6	77.4	77.9	79.2	77.3	77.6	75.7	54.3	20.8
2500	77.0	70.7	70.4	72.1	69.0	69.6	69.9	71.4	71.8	72.5	72.7	73.5	73.9	75.4	73.4	73.7	71.8	49.6	11.2
3150	72.4	66.1	65.8	67.4	64.5	65.0	65.4	67.0	67.4	68.1	68.3	69.1	69.6	71.0	68.9	69.2	67.2	43.8	1.7
4000	67.1	60.9	60.3	62.2	59.4	59.9	60.3	62.0	62.3	63.1	63.3	64.1	64.8	66.0	63.9	64.1	62.0	35.1	
5000	61.3	55.0	54.9	56.6	53.7	54.1	54.9	56.9	56.7	57.5	57.8	58.5	59.7	60.4	58.2	58.4	56.3	27.4	
6300	55.0	50.2	49.1	51.4	48.0	47.9	49.4	51.6	50.9	51.7	52.5	53.0	54.6	54.7	52.3	52.4	50.0	16.2	
8000	48.3	45.1	44.2	45.1	43.4	43.0	44.9	47.1	46.0	47.7	48.3	48.8	50.4	50.8	48.2	48.4	46.0	4.9	
10000	41.6	39.0	38.0	39.8	37.5	37.3	39.3	41.6	41.2	42.5	43.0	44.1	45.6	46.4	43.4	43.9	40.4		
12500	34.0	33.2	31.3	32.7	31.7	31.6	32.5	35.5	36.1	37.6	37.5	38.5	39.8	41.2	38.3	38.6	35.5		
16000	26.3	27.0	25.2	26.8	25.9	25.8	26.7	29.3	30.1	31.5	31.6	32.8	33.6	35.7	32.6	33.4	30.1		
20000	14.8	15.9	15.6	18.9	17.8	18.7	18.4	21.1	23.4	25.0	25.1	26.2	26.8	29.7	26.6	26.6	23.6		
25000	3.2	5.9	6.0	8.5	7.1	8.5	7.0	11.4	14.4	16.5	15.5	17.1	15.8	21.9	17.0	18.2	13.8		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-1040 AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-021
RUN 02
AIRCRAFT CODE 045
OPERATION CODE 01019
PROFILE VERSION A
30 DEC 75
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	111.1	104.2	104.2	105.9	100.2	102.9	100.2	103.5	102.1	102.7	102.9	103.7	103.2	105.1	103.6	103.7	102.5	85.0	63.4
250	108.9	102.0	101.9	103.6	98.0	100.6	98.3	101.3	99.9	100.5	100.7	101.2	101.0	102.9	101.5	101.6	100.4	82.6	60.8
315	106.6	99.7	99.6	101.3	95.7	98.3	96.1	99.0	97.7	98.3	98.5	99.3	98.8	100.7	99.3	99.4	98.2	80.3	58.1
400	104.2	97.3	97.3	98.9	93.3	96.0	93.9	96.7	95.5	96.1	96.2	97.0	96.6	98.5	97.3	97.1	95.9	77.8	55.4
500	101.7	94.8	94.8	96.4	90.9	93.5	91.5	94.2	93.1	93.7	93.8	94.7	94.2	96.2	94.7	94.8	93.5	75.3	52.2
630	99.0	92.2	92.1	93.7	88.5	90.9	89.0	91.7	90.7	91.3	91.4	92.2	91.8	93.8	92.3	92.4	91.1	72.7	49.0
800	96.3	89.4	89.4	90.9	85.9	88.1	86.5	89.0	88.1	88.8	88.9	89.7	89.2	91.3	89.8	90.0	88.6	69.9	46.1
1000	93.3	86.5	86.4	87.9	83.3	85.2	83.8	86.2	85.5	86.2	86.2	87.1	86.6	88.8	87.2	87.4	86.0	67.0	40.5
1250	90.2	83.4	83.3	84.7	80.5	82.1	81.0	83.3	82.8	83.4	83.5	84.3	83.8	86.1	84.4	84.7	83.3	63.7	35.4
1600	86.7	80.0	79.9	81.3	77.6	79.0	78.1	80.4	79.9	80.6	80.6	81.4	80.9	83.3	81.6	81.9	80.4	60.1	28.6
2000	83.0	76.4	76.2	77.6	74.5	75.9	75.0	77.2	76.9	77.6	77.6	78.4	77.9	80.4	78.6	78.9	77.4	56.3	22.8
2500	79.9	72.3	72.1	73.4	70.6	71.9	71.0	73.3	73.0	73.7	73.7	74.5	73.9	76.5	74.7	75.0	73.5	51.6	13.2
3150	76.2	67.6	67.3	68.6	66.0	67.3	66.6	68.9	68.5	69.3	69.3	70.1	69.6	72.1	70.2	70.6	68.9	45.7	3.7
4000	68.6	62.1	61.7	63.2	60.7	61.7	61.3	63.5	63.2	64.0	64.1	64.9	64.8	67.0	64.9	65.2	63.4	36.7	
5000	62.4	56.7	55.9	57.4	54.7	55.5	55.0	58.1	57.4	58.2	58.3	59.1	59.7	61.1	59.3	59.2	57.3	28.6	
6300	55.7	50.8	49.8	50.9	48.6	48.8	49.9	52.4	51.4	52.2	52.9	53.4	54.6	55.1	52.3	52.9	50.7	16.9	
8000	48.7	45.4	44.5	45.4	43.7	43.4	45.1	47.5	46.8	47.9	48.5	49.0	50.4	51.0	48.5	48.7	46.3	5.3	
10000	41.0	39.6	38.0	39.8	37.5	37.3	39.3	41.6	41.2	42.6	43.0	44.1	45.6	46.4	43.4	43.9	40.4		
12500	34.6	33.2	31.3	32.7	31.7	31.6	32.5	35.5	36.1	37.6	37.5	38.5	39.8	41.2	38.3	38.6	35.5		
16000	26.3	27.0	25.2	26.8	25.9	25.8	26.7	29.3	30.1	31.5	31.6	32.8	33.6	35.7	32.6	33.4	30.1		
20000	14.8	16.9	15.6	18.9	17.8	18.7	18.4	21.1	23.4	25.0	25.1	26.2	26.8	29.7	26.6	26.6	23.6		
25000	3.2	6.9	6.0	8.5	7.1	8.5	7.6	11.4	14.4	16.5	15.5	17.1	15.8	21.9	17.0	18.2	13.8		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 6.2
TEST 74-004-021
RUN 02
AIRCRAFT CODE 045
OPERATION CODE 01018
PROFILE VERSION A
30 DEC 75
PAGE F2

NOISE SOURCE/SUBJECT:
F-104D AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 53 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	94.6	87.6	87.1	89.9	84.5	85.0	85.9	87.5	86.8	87.5	87.9	88.5	89.4	89.8	87.9	87.7	85.9	67.4	47.4
250	92.6	85.4	84.9	87.6	82.3	83.5	83.4	85.4	84.7	85.4	85.8	86.4	87.3	87.7	85.9	85.6	83.8	65.3	45.3
315	90.3	83.2	82.7	85.3	80.2	81.3	81.2	83.2	82.6	83.3	83.7	84.3	85.2	85.7	83.8	83.5	81.7	63.1	43.1
400	88.6	83.9	83.4	82.9	78.0	79.0	79.1	81.0	80.4	81.2	81.5	82.2	83.0	83.6	81.7	81.5	79.6	60.9	40.9
500	85.5	78.6	78.0	80.5	75.8	76.8	76.8	78.8	78.2	79.0	79.3	80.0	80.9	81.4	79.6	79.3	77.5	58.7	38.7
630	83.6	76.2	75.6	78.0	73.6	74.4	74.5	76.5	76.0	76.8	77.1	77.9	78.6	79.3	77.4	77.2	75.3	56.4	36.4
800	80.4	73.7	73.1	75.4	71.2	72.0	72.2	74.1	73.7	74.6	74.9	75.5	76.4	77.1	75.2	75.0	73.1	54.0	34.0
1000	77.6	71.1	70.4	72.7	66.9	69.6	69.8	71.7	71.4	72.3	72.6	73.2	74.1	74.8	72.9	72.8	70.8	51.5	31.5
1250	74.6	68.4	67.7	69.9	66.5	67.3	67.3	69.2	69.0	69.9	70.2	70.9	71.6	72.5	70.5	70.5	68.4	48.9	28.9
1600	71.5	65.7	64.9	67.0	64.0	64.4	64.8	66.7	66.6	67.6	67.6	68.5	69.2	70.1	68.1	68.1	66.0	46.1	26.1
2000	68.1	62.8	62.0	64.0	61.4	61.7	62.2	64.0	64.1	65.1	65.3	66.0	66.6	67.7	65.6	65.7	63.5	43.1	23.1
2500	64.4	59.6	58.7	60.5	58.2	58.3	59.0	61.0	60.8	61.9	62.1	62.8	63.5	64.3	62.3	62.3	60.0	39.8	19.8
3150	60.4	56.1	55.0	56.6	54.5	54.6	55.3	57.2	57.1	58.2	58.6	59.2	60.0	60.6	58.6	58.4	56.2	36.1	16.1
4000	55.9	52.2	50.9	52.4	50.4	50.1	51.2	53.2	53.1	54.1	54.6	55.2	56.1	56.4	54.5	54.2	51.8	32.0	12.0
5000	51.0	48.0	46.9	47.6	46.9	46.3	46.7	48.7	48.5	49.6	50.2	50.8	51.8	51.7	49.9	49.4	47.0	27.6	7.6
6300	45.6	43.4	41.7	42.9	41.8	40.4	42.1	44.1	43.9	44.9	45.7	46.2	47.2	47.0	45.3	44.5	42.1	23.0	3.0
8000	40.9	39.6	37.9	39.0	37.8	36.8	38.5	40.4	40.4	41.5	42.1	42.7	43.7	43.6	41.9	41.2	38.8	19.5	
10000	36.6	35.5	33.9	34.9	34.0	33.2	34.8	36.6	36.7	37.6	38.3	39.0	39.8	39.9	38.2	37.7	35.2	15.8	
12500	31.2	31.1	29.7	30.7	30.0	29.2	30.7	32.4	32.7	33.5	34.2	34.9	35.7	35.9	34.3	33.8	31.4	11.9	
16000	26.1	26.3	25.1	26.1	25.6	24.9	26.3	27.9	28.3	29.4	29.7	30.4	31.1	31.6	29.9	29.7	27.2	7.9	
20000	20.7	20.9	20.1	21.2	20.7	20.2	21.4	22.9	23.4	24.5	24.7	25.5	26.1	26.9	25.1	25.1	22.7	3.9	
25000	14.8	15.1	14.6	15.8	15.3	15.0	16.0	17.4	18.3	19.1	19.2	20.3	20.6	21.6	19.9	20.0	17.7	.0	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-10*D AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 65% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-021
RUN 02
AIRCRAFT CODE 045
OPERATION CODE 01018
PROFILE VERSION A
30 DEC 75
PAGE 62

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	96.7	89.2	88.8	91.1	86.0	87.9	86.7	89.4	90.0	88.7	88.8	89.5	89.4	90.9	89.3	89.0	87.6	69.4	49.4
250	94.4	87.0	86.6	88.9	83.9	85.7	84.5	87.3	89.9	86.0	86.7	87.4	87.3	88.9	87.2	87.0	85.5	67.2	47.2
315	92.2	84.8	84.4	86.6	81.8	83.5	82.4	85.1	83.0	84.5	84.6	85.3	85.2	86.8	85.1	84.9	83.4	65.1	45.1
400	89.8	82.5	82.1	84.2	79.6	81.3	80.2	82.9	81.0	82.4	82.5	83.2	83.0	84.7	83.0	82.8	81.3	62.9	42.9
500	87.4	80.1	79.7	81.8	77.4	79.0	78.0	80.7	79.4	80.2	80.3	81.0	80.9	82.6	80.9	80.7	79.2	60.7	40.7
630	84.8	77.7	77.3	79.2	75.1	76.7	75.7	78.4	77.2	78.0	78.1	78.8	78.6	80.4	78.7	78.6	77.0	58.3	38.3
800	82.2	75.2	74.8	76.6	72.8	74.3	73.4	76.0	74.9	75.8	75.8	76.5	76.4	78.2	76.5	76.4	74.8	56.0	36.0
1000	79.4	72.7	72.2	73.9	70.5	71.8	71.0	73.6	72.8	73.5	73.5	74.2	74.1	76.0	74.2	74.2	72.5	53.5	33.5
1250	76.5	70.0	69.4	71.1	68.0	69.3	68.5	71.1	70.2	71.1	71.1	71.9	71.6	73.7	71.9	71.9	70.1	50.8	30.8
1600	73.3	67.2	66.6	68.2	65.5	66.7	65.9	68.6	67.8	68.8	68.7	69.5	69.2	71.3	69.4	69.5	67.7	48.1	28.1
2000	69.9	64.3	63.7	65.2	63.0	64.0	63.4	65.9	65.3	66.3	66.2	67.0	66.6	68.8	66.9	67.1	65.2	45.1	25.1
2500	66.3	61.2	60.4	61.7	59.8	60.5	60.1	62.7	62.0	63.1	63.1	63.8	63.5	65.5	63.8	63.6	61.8	41.8	21.8
3150	62.2	57.7	56.7	57.9	56.1	56.8	56.4	59.1	58.3	59.4	59.5	60.2	60.0	61.7	59.9	59.8	57.9	38.1	18.1
4000	57.4	53.5	52.2	53.4	51.7	51.9	52.2	54.7	54.0	55.1	55.4	56.0	56.1	57.3	55.5	55.2	53.2	33.6	13.6
5000	52.1	48.9	47.4	48.5	46.8	46.6	47.4	49.9	49.2	50.3	50.8	51.4	51.8	52.4	50.7	50.2	48.0	28.8	8.8
6300	46.5	44.1	42.3	43.4	41.9	41.3	42.5	44.9	44.3	45.4	46.0	46.6	47.2	47.4	45.8	45.1	42.8	23.8	3.8
8000	41.2	39.9	38.2	39.2	38.1	37.3	38.8	40.8	40.3	41.7	42.3	42.9	43.7	43.8	42.2	41.5	39.1	19.9	
10000	36.0	35.5	33.9	34.9	34.0	33.2	34.8	36.6	36.7	37.8	38.3	39.0	39.8	39.9	38.2	37.7	35.2	15.9	
12500	31.2	31.1	29.7	30.7	30.0	29.2	30.7	32.4	32.7	33.8	34.2	34.9	35.7	35.9	34.3	33.8	31.4	11.9	
16000	26.1	26.3	25.1	26.1	25.6	24.9	26.3	27.9	28.3	29.4	29.7	30.4	31.1	31.0	29.9	29.7	27.2	7.9	
20000	20.7	21.9	20.1	21.2	20.7	20.2	21.4	22.9	23.4	24.5	24.7	25.5	26.1	26.9	25.1	25.1	22.7	3.9	
25000	14.8	15.1	14.0	15.8	15.3	15.0	16.0	17.4	18.0	19.1	19.2	20.1	20.6	21.6	19.9	20.0	17.7	.0	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

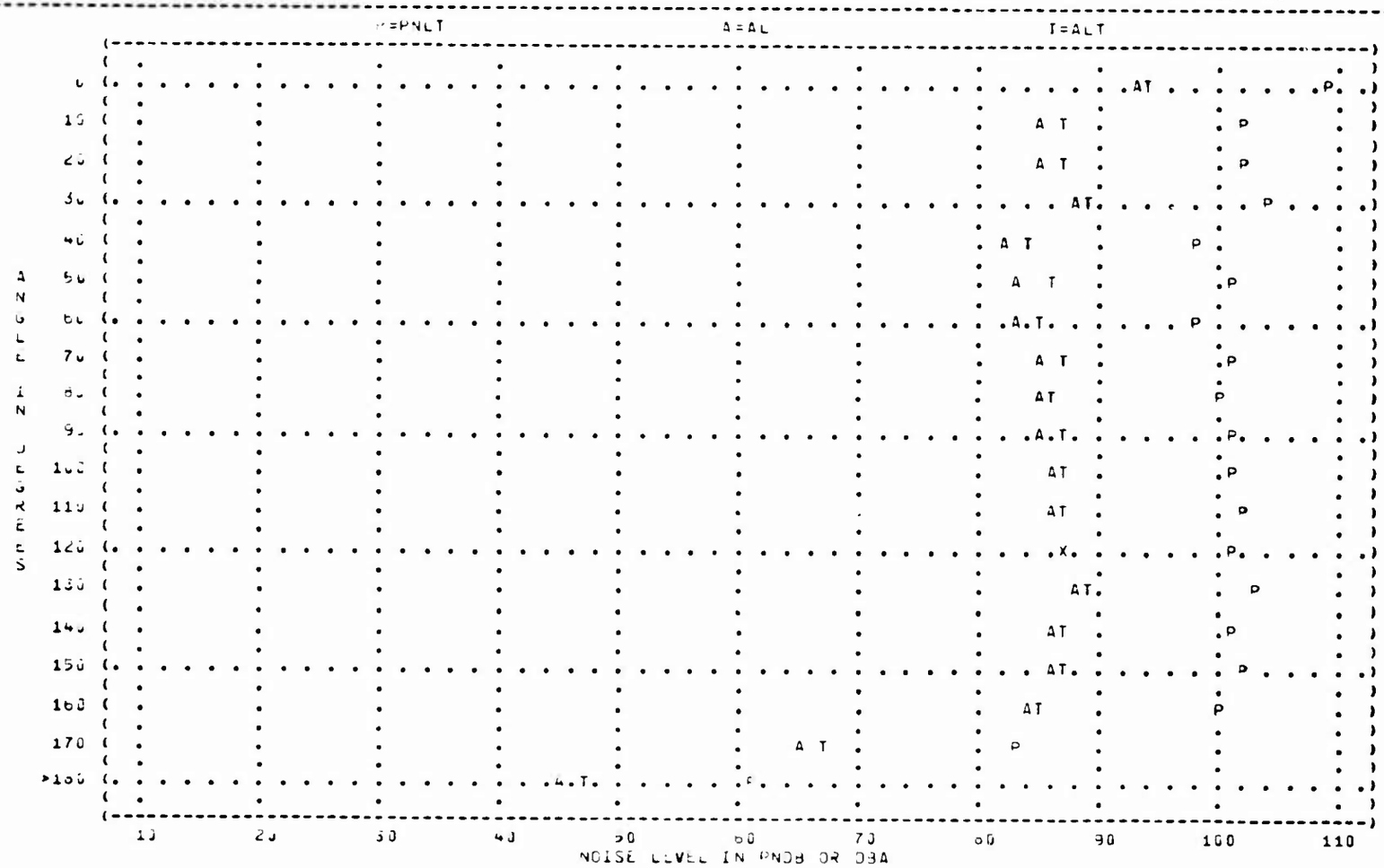
NOISE SOURCE/SUBJECT:
F-104B AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-021
RUN J2
AIRCRAFT CODE 045
OPERATION CODE J1018
PROFILE VERSION A
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PAGE J2

P=PNLT A=AL T=ALT



▸ SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 6.2
TEST 74-004-021
RUN 03

NOISE SOURCE/SUBJECT:
F-1040 AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 03

AIRCRAFT CODE 045
OPERATION CODE 01004
PROFILE VERSION A
30 DEC 75
PAGE 03

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	79	79	80	79	81	80	83	85	85	87	89	89	95	101	106	108	105	90	70
63	81	81	81	83	86	83	86	87	89	91	92	93	100	104	109	113	107	90	70
80	82	83	83	84	84	85	87	89	91	92	94	96	103	107	112	115	109	91	71
100	85	85	86	86	87	88	90	91	93	95	96	99	106	111	115	120	112	94	74
125	86	87	89	89	88	90	92	94	95	97	99	101	107	113	115	121	115	91	71
160	90	90	90	91	93	92	95	95	97	99	100	104	111	118	117	121	117	94	74
200	89	90	90	90	92	91	92	94	95	98	100	103	109	117	117	115	115	90	70
250	87	87	88	88	91	91	91	92	94	97	99	102	108	113	118	113	115	91	71
315	82	89	91	91	90	92	92	94	96	97	101	104	111	117	118	121	117	90	70
400	87	93	94	93	93	94	95	93	99	100	103	107	112	117	121	121	116	87	67
500	88	89	92	93	97	94	96	93	100	102	104	108	111	115	119	115	113	85	65
630	87	88	92	93	94	93	93	96	97	99	102	105	110	112	117	117	114	85	65
800	90	90	95	95	99	97	97	100	101	103	104	107	109	112	114	113	111	82	62
1000	85	87	90	94	98	97	95	98	98	100	102	104	108	109	114	113	110	81	61
1250	80	84	90	91	95	95	94	93	99	100	101	102	104	105	109	108	105	78	58
1600	79	82	89	91	95	95	94	100	101	103	104	104	104	104	109	106	101	78	58
2000	76	79	87	89	93	95	93	99	100	102	104	103	101	103	107	104	99	77	57
2500	75	78	86	87	92	92	91	98	99	102	103	102	100	101	105	105	100	75	55
3150	68	73	81	84	89	88	87	95	97	98	100	97	98	100	102	105	99	72	52
4000	67	72	81	83	88	87	87	95	96	96	99	97	99	100	102	104	99	71	51
5000	64	70	78	80	85	84	84	92	93	94	96	94	90	97	99	99	93	68	48
6300	62	68	76	77	83	82	82	90	90	92	94	93	94	95	98	99	89	66	46
8000	60	68	75	75	81	81	80	86	88	90	91	91	92	94	97	97	87	64	44
10000	59	65	71	71	76	76	76	82	83	85	87	87	89	90	94	94	83	59	39
OVERALL	98	100	103	103	105	105	105	110	111	113	114	115	121	126	128	129	125	102	82

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-104D AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-021
RUN 03
AIRCRAFT CODE 045
OPERATION CODE 01004
PROFILE VERSION A
30 DEC 75
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES)																	
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	106.8	109.8	113.8	114.9	118.7	118.8	118.3	123.8	125.0	127.2	128.5	128.7	130.8	134.6	138.0	136.2	133.9	108.4	87.8
250	104.7	107.7	111.6	112.7	116.5	116.6	116.1	121.6	122.7	125.0	126.3	126.5	128.7	132.5	135.9	136.0	131.7	106.2	85.6
315	102.6	105.5	109.4	110.5	114.2	114.3	113.8	119.3	120.5	122.7	124.0	124.3	126.5	130.3	133.7	133.9	129.6	104.1	83.3
400	100.3	103.3	107.1	108.2	111.9	112.0	111.5	117.0	118.1	120.4	121.7	121.9	124.3	128.1	131.5	131.7	127.5	101.9	81.0
500	98.1	101.1	104.7	105.8	109.5	109.6	109.1	114.6	115.7	117.9	119.3	119.5	122.0	125.9	129.3	129.5	125.2	99.6	78.7
630	95.7	98.7	102.2	103.3	107.0	107.2	106.5	112.0	113.2	115.4	116.7	117.0	119.7	123.5	127.0	127.1	122.9	97.2	76.2
800	93.2	96.3	99.7	100.7	104.5	104.6	103.9	109.3	110.5	112.7	114.1	114.4	117.2	121.1	124.6	124.7	120.5	94.8	73.7
1000	90.7	93.7	97.1	98.0	101.8	101.8	101.1	106.5	107.7	109.9	111.2	111.6	114.7	118.5	122.1	122.3	118.1	92.1	71.0
1250	87.9	91.1	94.3	95.2	98.9	98.9	98.2	103.4	104.6	106.9	108.3	108.6	112.0	116.0	119.5	119.6	115.5	89.1	67.9
1600	85.1	88.3	91.5	92.2	95.8	95.7	95.1	100.3	101.4	103.6	105.1	105.7	109.1	113.2	116.7	116.8	112.7	85.8	64.6
2000	82.0	85.3	88.5	89.1	92.6	92.4	91.7	96.9	98.1	100.3	101.7	102.6	106.2	110.2	113.8	113.9	109.8	82.5	61.3
2500	78.7	81.6	85.0	85.7	89.2	88.7	88.2	93.3	94.4	96.1	98.0	99.3	102.4	106.5	110.1	110.1	106.0	78.6	57.1
3150	75.1	77.4	81.3	82.1	85.6	84.8	84.3	89.3	90.4	92.0	93.8	95.4	98.4	102.3	106.0	106.0	101.9	74.3	52.4
4000	71.1	72.9	77.3	78.1	81.6	80.7	80.3	84.9	86.0	87.6	89.3	91.1	94.1	97.7	101.6	101.2	97.6	69.8	47.2
5000	66.7	68.4	72.9	73.7	77.3	76.2	75.8	80.0	81.1	82.7	84.5	86.4	89.5	93.0	97.0	96.3	92.9	64.9	41.3
6300	62.0	63.6	68.1	68.8	72.4	71.3	70.9	74.7	76.0	77.8	79.4	81.6	84.6	88.2	92.1	91.5	88.1	59.7	34.3
8000	57.7	59.4	63.8	64.5	68.0	66.9	66.5	70.1	71.5	73.3	75.0	77.5	80.7	84.5	88.4	87.6	84.3	55.6	28.2
10000	52.9	54.7	59.0	59.7	63.2	62.0	61.6	65.2	66.6	68.4	70.2	73.3	76.5	80.5	84.5	83.5	80.3	50.9	20.0
12500	47.6	49.4	53.6	54.2	57.8	56.5	56.8	59.9	61.5	63.2	65.4	68.6	72.1	76.2	80.2	79.2	75.8	45.9	10.6
16000	41.7	43.8	47.8	48.2	52.1	50.4	51.4	54.4	56.1	57.7	60.1	63.5	67.2	71.5	75.5	74.8	70.9	40.0	1.3
20000	35.6	37.7	41.1	41.5	45.7	43.0	45.1	48.3	50.0	51.9	54.2	57.8	61.8	66.4	70.3	70.0	65.8	33.3	
25000	26.6	29.8	32.7	33.2	37.9	35.6	37.5	40.6	42.8	44.5	47.5	51.5	55.7	60.6	64.5	64.7	60.4	23.5	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-1040 AIRCRAFT
ENG: J79-GE-7
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-304-021
RUN 03
AIRCRAFT CODE 045
OPERATION CODE 01004
PROFILE VERSION A
30 DEC 75
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	108.0	110.5	113.8	114.9	119.9	120.6	118.3	123.6	126.0	126.3	128.5	128.7	130.8	134.6	138.0	136.9	133.9	108.9	88.4
250	105.0	108.4	111.6	112.7	117.7	116.6	116.1	121.6	123.6	126.1	126.3	126.5	128.7	132.5	135.9	136.8	131.7	106.8	86.1
315	103.7	106.2	109.4	110.5	115.4	114.3	113.6	119.3	121.5	123.9	124.0	124.3	126.5	130.3	133.7	134.7	129.6	104.6	83.9
400	101.5	104.0	107.1	108.2	113.1	112.0	111.5	117.0	119.2	121.5	121.7	121.9	124.3	128.1	131.5	132.5	127.5	102.4	81.6
500	99.2	101.7	104.7	105.8	110.7	109.6	109.1	114.6	116.3	119.1	119.3	119.5	122.0	125.9	129.3	130.2	125.2	100.1	79.2
630	96.8	99.4	102.2	103.3	108.2	107.2	106.5	112.0	114.2	116.5	116.7	117.0	119.7	123.5	127.0	127.9	122.9	97.7	76.8
800	94.4	96.9	99.7	100.7	105.7	104.6	103.9	109.3	111.6	113.9	114.1	114.4	117.2	121.1	124.6	125.5	120.5	95.3	74.3
1000	91.8	94.4	97.1	98.0	103.0	101.6	101.1	106.5	108.7	111.0	111.2	111.6	114.7	118.6	122.1	123.0	118.1	92.7	71.5
1250	89.1	91.7	94.3	95.2	100.1	98.9	98.2	103.4	105.7	108.0	108.3	108.6	112.0	116.0	119.5	120.4	115.5	89.6	68.5
1600	86.2	88.9	91.5	92.2	97.0	95.7	95.1	100.3	102.5	104.7	105.1	105.7	109.1	113.2	116.7	117.6	112.7	86.3	65.2
2000	83.2	86.0	88.5	89.1	93.8	92.4	91.7	96.9	99.1	101.1	101.7	102.6	106.2	110.2	113.8	114.7	109.8	83.1	61.9
2500	79.8	82.3	85.0	85.7	90.4	88.7	88.2	93.3	95.5	97.2	98.0	99.3	102.4	106.5	110.1	110.9	106.0	79.2	57.7
3150	76.2	78.1	81.3	82.1	86.8	84.6	84.3	89.3	91.5	93.2	93.8	95.4	98.4	102.3	106.0	106.7	101.9	74.9	53.0
4000	72.0	73.4	77.3	78.1	82.6	80.7	80.3	84.9	86.9	88.5	89.3	91.1	94.1	97.7	101.6	101.8	97.6	70.3	47.7
5000	67.4	68.8	72.9	73.7	78.0	76.2	75.6	80.0	81.8	83.4	84.5	86.4	89.5	93.0	97.0	96.8	92.9	65.2	41.6
6300	62.4	63.9	68.1	68.8	72.9	71.3	70.9	74.7	76.5	78.3	79.4	81.6	84.6	88.2	92.1	91.8	88.1	59.9	34.5
8000	58.0	59.5	63.8	64.5	68.3	66.9	66.5	70.1	71.7	73.5	75.0	77.5	80.7	84.5	88.4	87.8	84.3	55.7	28.3
10000	52.9	54.7	59.0	59.7	63.2	62.0	61.6	65.2	66.6	68.4	70.2	73.3	76.5	80.5	84.5	83.5	80.3	50.9	24.0
12500	47.6	49.4	53.6	54.2	57.8	56.5	56.8	59.9	61.5	63.2	65.4	68.6	72.1	76.2	80.2	79.2	75.8	45.9	18.6
16000	41.7	43.8	47.8	48.2	52.1	50.4	51.4	54.4	56.1	57.7	60.1	63.5	67.2	71.5	75.5	74.8	70.9	40.0	13.3
20000	35.6	37.7	41.1	41.5	45.7	43.5	45.1	48.3	50.0	51.9	54.2	57.3	61.8	66.4	70.3	70.0	65.8	33.3	
25000	26.0	29.8	32.7	33.2	37.9	35.0	37.5	40.6	42.0	44.3	47.5	51.5	55.7	60.5	64.2	64.7	60.4	23.5	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-1040 AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-021
RUN 03
AIRCRAFT CODE 045
OPERATION CODE 01004
PROFILE VERSION A
30 DEC 75
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	95.9	96.0	102.6	103.5	107.3	106.7	105.9	111.0	112.0	113.8	115.4	116.2	118.7	122.0	125.5	125.0	121.6	94.6	74.0
250	93.6	93.9	100.5	101.4	105.2	104.6	103.6	108.8	109.8	111.6	113.2	114.0	116.6	119.9	123.4	122.9	119.6	92.5	72.5
315	91.7	93.5	98.4	99.3	103.1	102.5	101.6	106.6	107.6	109.4	111.0	111.9	114.5	117.9	121.3	120.9	117.5	90.5	70.5
400	89.6	91.7	96.2	97.1	100.9	100.3	99.5	104.4	105.4	107.2	108.8	109.7	112.4	115.7	119.2	118.8	115.4	88.3	68.3
500	87.5	89.6	94.1	94.9	98.7	98.1	97.3	102.1	103.1	104.9	106.5	107.5	110.2	113.6	117.1	116.6	113.3	86.2	66.2
630	85.3	87.4	91.8	92.7	96.4	95.8	95.0	99.8	100.8	102.5	104.2	105.3	108.0	111.4	114.9	114.4	111.1	83.9	63.9
800	83.1	85.2	89.6	90.4	94.1	93.4	92.7	97.3	98.4	100.1	101.7	103.0	105.7	109.2	112.7	112.2	108.8	81.6	61.6
1000	80.8	82.9	87.2	88.0	91.7	91.0	90.3	94.9	95.9	97.6	99.2	100.6	103.4	106.9	110.4	109.9	106.5	79.2	59.2
1250	78.4	80.5	84.8	85.6	89.3	88.5	87.8	92.3	93.3	95.0	96.7	98.1	101.0	104.4	108.0	107.5	104.1	76.6	56.6
1600	76.0	78.1	82.3	83.1	86.7	85.9	85.2	89.8	90.8	92.2	93.9	95.6	98.5	101.9	105.5	105.0	101.6	73.9	53.9
2000	73.4	75.6	79.7	80.4	84.0	83.2	82.5	86.7	87.7	89.4	91.1	92.9	96.0	99.3	103.0	102.4	99.0	71.1	51.1
2500	70.7	72.6	76.8	77.6	81.2	80.2	79.6	83.7	84.7	86.3	88.1	90.0	93.0	96.3	100.0	99.3	96.0	68.0	48.0
3150	67.6	69.4	73.7	74.5	78.1	77.0	76.4	80.3	81.4	83.0	84.7	86.8	89.8	92.9	96.7	96.0	92.7	64.8	44.8
4000	64.2	65.8	70.3	71.0	74.7	73.5	72.9	76.7	77.7	79.4	81.1	83.2	86.3	89.2	92.9	92.2	89.0	60.8	40.8
5000	60.3	61.8	66.3	67.1	70.8	69.6	68.9	72.7	73.7	75.3	77.0	79.1	82.2	85.1	88.7	88.0	84.9	56.6	36.6
6300	56.1	57.5	62.1	62.9	66.6	65.3	64.6	68.2	69.2	71.8	72.5	74.8	77.9	80.7	84.3	83.6	80.5	52.1	32.1
8000	52.3	53.7	58.3	58.8	62.4	61.1	60.2	63.9	65.0	66.6	68.3	70.3	74.1	77.3	80.7	79.9	76.8	48.4	28.4
10000	48.1	49.4	53.6	54.3	57.9	56.4	56.0	59.2	60.4	62.3	63.8	66.0	69.9	73.0	76.7	75.9	72.8	44.4	24.4
12500	43.4	44.8	48.7	49.4	52.8	51.3	51.1	54.2	55.4	57.1	58.9	61.9	65.4	68.6	72.4	71.5	68.4	40.1	20.1
16000	38.2	39.7	43.4	43.9	47.2	45.8	45.7	48.7	50.0	51.6	53.6	56.8	60.4	63.9	67.6	66.7	63.6	35.5	15.5
20000	32.4	34.1	37.4	37.9	41.1	39.5	39.9	42.7	44.1	45.7	47.8	51.2	54.8	58.6	62.4	61.5	58.2	30.5	10.5
25000	26.1	28.0	30.9	31.3	34.3	32.7	33.5	36.2	37.6	39.2	41.4	45.0	48.8	52.9	56.6	55.8	52.5	25.3	5.3

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-021
RUN 03
AIRCRAFT CODE 045
OPERATION CODE 01004
PROFILE VERSION A
30 DEC 75
PAGE 63

NOISE SOURCE/SUBJECT:
F-1040 AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 53 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	97.6	98.7	102.6	103.5	108.5	106.7	105.9	111.0	113.1	114.9	115.4	116.2	118.7	122.0	125.5	125.8	121.6	95.1	75.1
250	94.9	96.6	100.5	101.4	106.4	104.6	103.6	108.8	110.9	112.8	113.2	114.0	116.6	119.9	123.4	123.7	119.6	93.1	73.1
315	92.9	94.5	98.4	99.3	104.3	102.5	101.6	106.6	108.7	110.6	111.0	111.9	114.5	117.9	121.3	121.6	117.5	91.0	71.0
400	90.8	92.4	96.2	97.1	102.1	100.3	99.5	104.4	106.5	108.3	108.8	109.7	112.4	115.7	119.2	119.5	115.4	88.9	68.9
500	88.6	90.3	94.1	94.9	99.9	98.1	97.3	102.1	104.2	106.0	106.5	107.5	110.2	113.6	117.1	117.4	113.3	86.7	66.7
630	86.4	88.1	91.8	92.7	97.6	95.8	95.0	99.8	101.9	103.7	104.2	105.3	108.0	111.4	114.9	115.2	111.1	84.4	64.4
800	84.2	85.8	89.6	90.4	95.3	93.4	92.7	97.3	99.4	101.2	101.7	103.0	105.7	109.2	112.7	113.0	108.8	82.1	62.1
1000	81.9	83.6	87.2	88.0	92.9	91.0	90.3	94.9	96.9	98.7	99.2	100.6	103.4	106.9	110.4	110.7	106.5	79.7	59.7
1250	79.5	81.2	84.8	85.6	90.5	88.5	87.8	92.3	94.3	96.1	96.7	98.1	101.0	104.4	108.0	108.3	104.1	77.1	57.1
1600	77.1	78.7	82.3	83.1	87.9	85.9	85.2	89.6	91.6	93.4	93.9	95.6	98.5	101.9	105.5	105.7	101.6	74.4	54.4
2000	74.6	76.2	79.7	80.4	85.2	83.2	82.5	86.7	88.8	90.5	91.1	92.9	96.0	99.3	103.0	103.2	99.0	71.6	51.6
2500	71.8	73.3	76.8	77.6	82.4	80.2	79.6	83.7	85.8	87.5	88.1	90.0	93.0	96.3	100.0	100.1	96.0	68.5	48.5
3150	68.8	70.0	73.7	74.5	79.3	77.0	76.4	80.3	82.4	84.1	84.7	86.8	89.8	92.9	96.7	96.7	92.7	65.1	45.1
4000	65.1	66.4	70.3	71.0	75.6	73.5	72.9	76.7	78.6	80.3	81.1	83.2	86.3	89.2	92.9	92.8	89.0	61.2	41.2
5000	61.0	62.2	66.3	67.1	71.5	69.6	68.9	72.7	74.3	76.0	77.0	79.1	82.2	85.1	88.7	88.4	84.9	56.9	36.9
6300	56.6	57.8	62.1	62.9	67.1	65.3	64.6	68.2	69.7	71.3	72.5	74.8	77.9	80.7	84.3	83.9	80.5	52.3	32.3
8000	52.5	53.8	58.0	58.8	62.7	61.1	60.5	63.9	65.2	66.8	68.3	70.8	74.1	77.0	80.7	80.0	76.8	48.5	28.5
10000	48.1	49.4	53.6	54.3	57.9	56.4	56.0	59.2	60.4	62.0	63.8	66.6	69.9	73.0	76.7	75.9	72.8	44.4	24.4
12500	43.4	44.8	48.7	49.4	52.8	51.3	51.1	54.2	55.4	57.1	58.9	61.9	65.4	68.5	72.4	71.5	68.4	40.1	20.1
16000	38.2	39.7	43.4	43.9	47.2	45.5	45.7	48.7	50.0	51.6	53.6	56.8	60.4	63.9	67.6	66.7	63.6	35.5	15.5
20000	32.4	34.1	37.4	37.9	41.1	39.5	39.9	42.7	44.1	45.7	47.8	51.2	54.8	58.6	62.4	61.5	58.2	30.5	10.5
25000	26.1	28.0	30.9	31.3	34.3	32.7	33.5	36.2	37.6	39.2	41.4	45.0	48.8	52.9	56.6	55.8	52.5	25.3	5.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

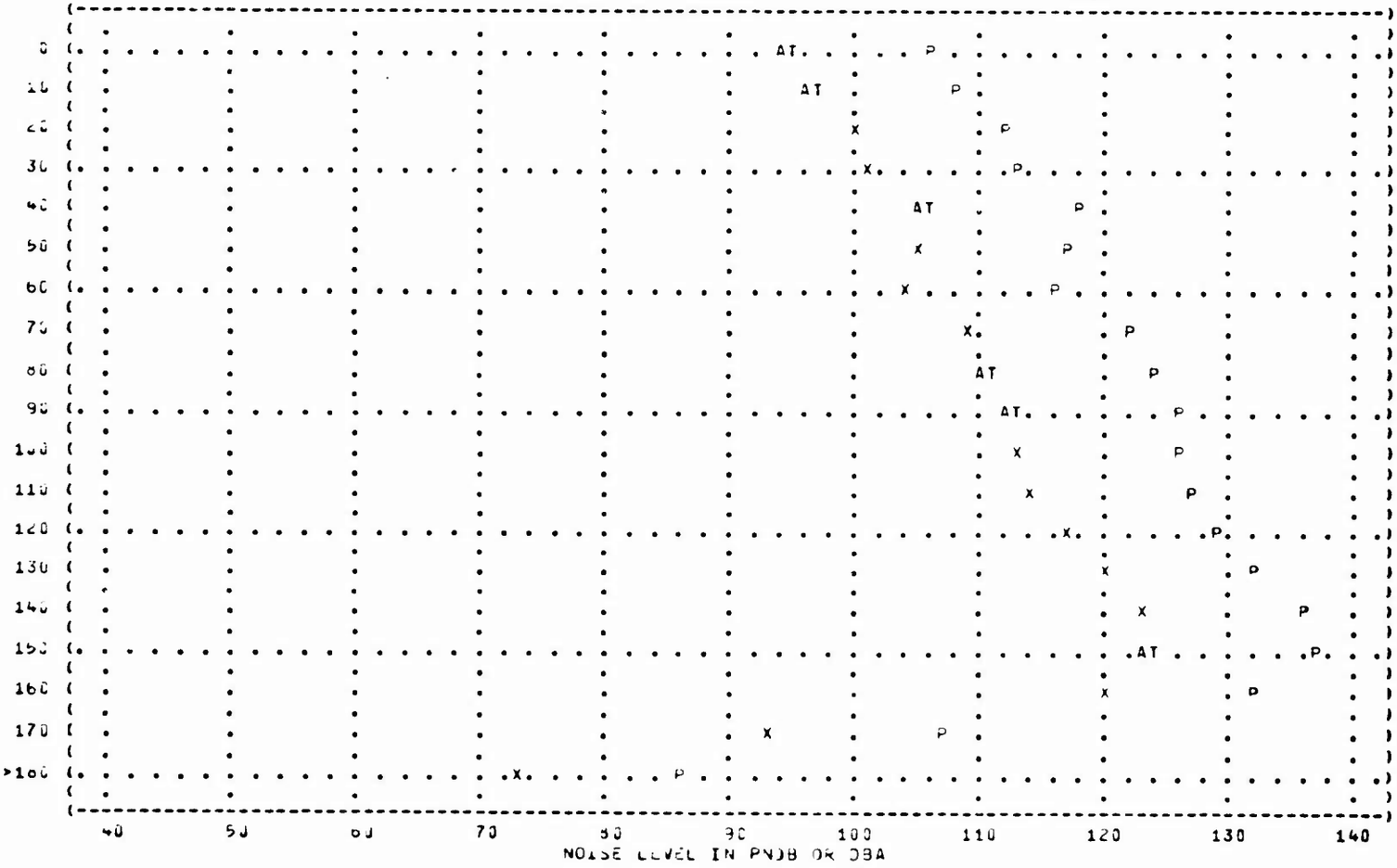
NOISE SOURCE/SUBJECT:
F-16C0 AIRCRAFT
ENG. J79-GE-7
GROUND RUNUP

OPERATION:
MILITARY POWER, 100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-021
RUN 03
AIRCRAFT CODE 045
OPERATION CODE 01004
PROFILE VERSION A
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P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF F-111A,E AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

F-111A,E AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 510
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

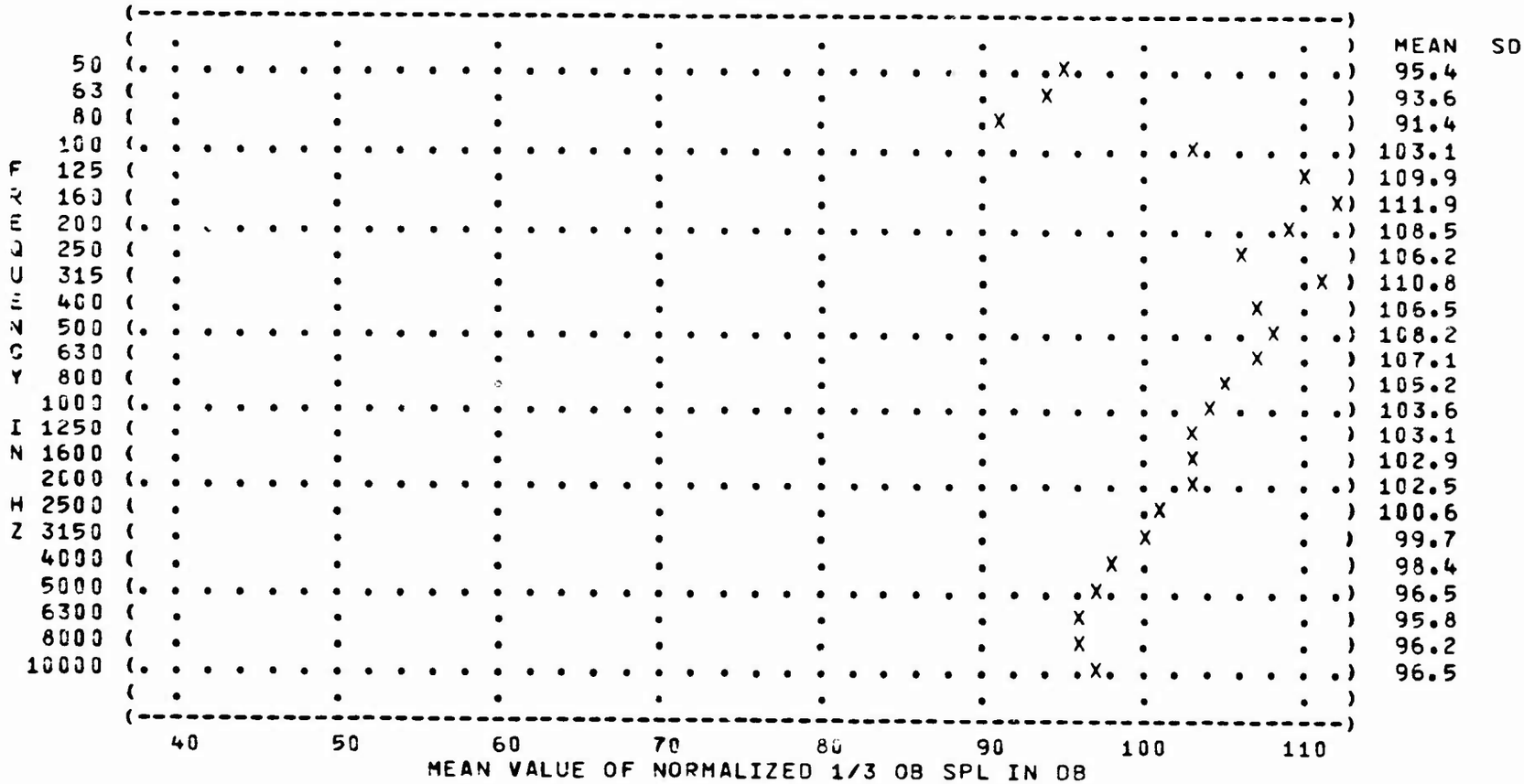
POWER SETTING	PAGE
AFTERBURNER 97% RPM	557-565
TAKEOFF 97% RPM	566-574
APPROACH 81% RPM	575-583
INTERMEDIATE 86% RPM	584-592

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
- AIR-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
- GROUND-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

17 FEB 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO



F-111A,E AFTERBURNER POWER 97 % RPM

AIRSPEED = 350 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-510-101-170276

PNLT = 128.5 PNDB
PNL = 127.7 PNDB
ALT = 115.5 DBA
AL = 114.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-111A,E

OPERATION: AFTERBURNER POWER, 97 % RPM, AIRSPEED = 350 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 510
OPS CODE: 101
PROFILE VER: A
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PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	109	108	106	117	124	126	123	121	125	121	123	122	120	119	119	119	119	118	119	120	119	122	128	136
250	107	106	103	115	122	124	121	119	123	119	121	120	118	117	117	117	117	116	117	117	116	119	125	133
315	105	104	101	113	120	122	119	116	121	117	119	118	116	115	115	115	115	114	114	115	114	116	121	128
400	103	102	99	111	118	120	117	114	119	115	117	116	114	113	112	113	113	111	112	112	111	113	117	124
500	101	100	97	109	116	118	115	112	117	113	115	114	112	110	110	110	110	109	109	109	108	109	113	119
630	99	98	95	107	114	116	113	110	115	111	113	112	110	108	108	108	108	106	106	106	104	105	108	112
800	97	96	93	105	112	114	111	108	113	109	110	109	107	106	106	105	105	104	103	102	101	101	103	105
1000	95	94	91	103	110	112	109	106	111	<107	108	107	105	104	103	103	103	101	100	98	97	96	96	97
1250	93	92	89	101	108	110	106	104	109	104	106	105	103	101	101	100	100	97	96	94	92	90	89	86
1600	91	90	87	99	106	108	104	102	106	102	104	102	100	99	98	97	96	94	92	89	86	83	79	74
2000	89	87	85	97	104	106	102	100	104	100	101	100	98	96	95	94	93	90	87	83	80	75	68	59
2500	87	85	83	95	102	103	100	98	102	97	99	97	95	93	92	91	89	85	82	77	72	65	55	40
3150	85	83	81	93	99	101	98	95	100	95	96	95	92	90	88	87	85	80	76	69	63	53	39	17
4000	83	81	79	91	97	99	95	93	97	92	94	92	89	86	85	82	80	74	69	60	53	39	19	
5000	81	79	77	88	95	97	93	90	95	90	91	89	86	83	80	78	74	68	60	48	40	21		
6300	79	77	75	86	93	94	91	88	92	87	88	85	82	78	75	72	67	59	50	35	24			
8000	77	75	72	84	90	92	88	85	89	84	84	82	78	74	70	65	59	50	37	18	5			
10000	75	73	70	82	88	89	85	82	86	80	80	77	73	68	63	57	50	38	22					
12500	72	70	68	79	85	87	83	79	83	77	76	72	67	61	56	48	39	24	3					
16000	70	68	65	77	83	84	79	76	79	72	71	67	61	54	47	37	25	6						
20000	68	66	63	74	80	81	76	72	75	68	66	60	53	45	36	23	8							
25000	65	63	60	71	77	77	72	68	70	62	59	53	44	34	22	7								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-111A,E

OPERATION: AFTERBURNER POWER 97 % RPM

AIRSPEED = 350 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %

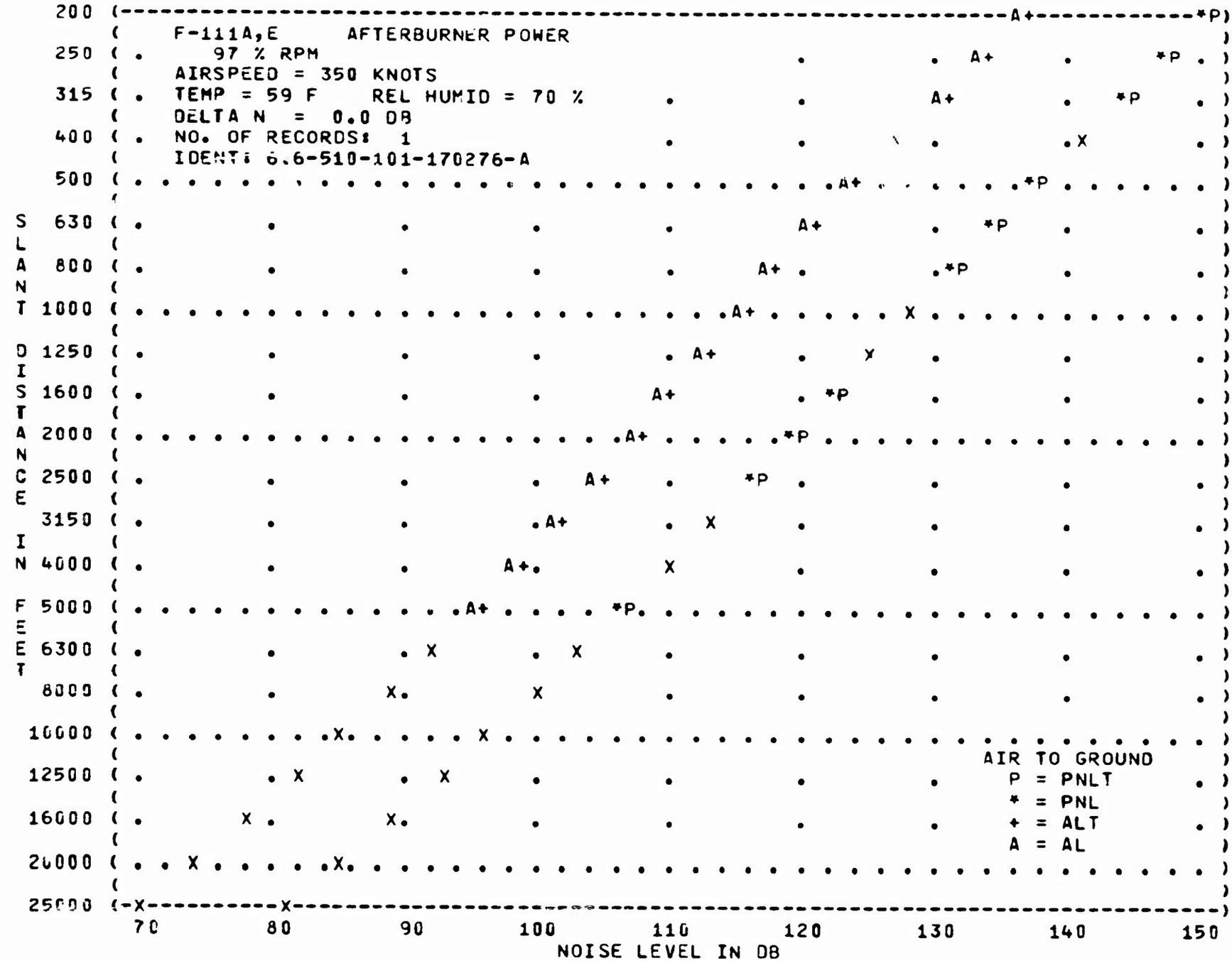
DELTA N = 0.0 DB

A/C CODE: 510
GPS CODE: 101
PROFILE VER: A
17 FEB 76
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	136.2	137.0	150.0	150.7	131.8	132.8	136.3
250	133.1	133.9	147.1	147.8	129.8	130.8	134.4
315	129.9	130.7	143.9	144.7	127.6	128.6	132.3
400	126.7	127.4	140.6	141.4	125.3	126.3	130.0
500	123.4	124.2	137.1	137.9	123.1	124.1	127.5
630	120.4	121.1	133.8	134.6	121.0	122.0	125.2
800	117.5	118.2	130.9	131.6	119.1	120.1	123.2
1000	114.8	115.5	127.7	128.5	117.4	118.4	121.1
1250	112.1	112.9	124.7	125.4	115.8	116.8	119.1
1600	109.5	110.2	121.8	122.5	114.1	115.1	117.2
2000	106.8	107.5	118.8	119.6	112.4	113.4	115.2
2500	104.0	104.8	115.8	116.5	110.7	111.7	113.2
3150	101.2	101.9	112.7	113.5	108.8	109.8	111.1
4000	98.3	98.9	109.6	110.2	106.9	107.7	108.8
5000	95.3	95.7	106.5	106.9	104.9	105.5	106.4
6300	92.1	92.4	103.2	103.5	102.7	103.1	103.9
8000	88.8	89.0	99.8	99.9	100.5	100.7	101.3
10000	85.4	85.4	96.2	96.2	98.0	98.0	98.6
12500	81.8	81.8	92.6	92.6	95.4	95.4	95.9
16000	78.0	78.0	88.9	88.9	92.6	92.6	93.3
20000	73.9	73.9	85.1	85.1	89.6	89.6	90.5
25000	69.7	69.7	80.9	80.9	86.3	86.3	87.3

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111A,E AFTERBURNER POWER
97 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-510-101-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB

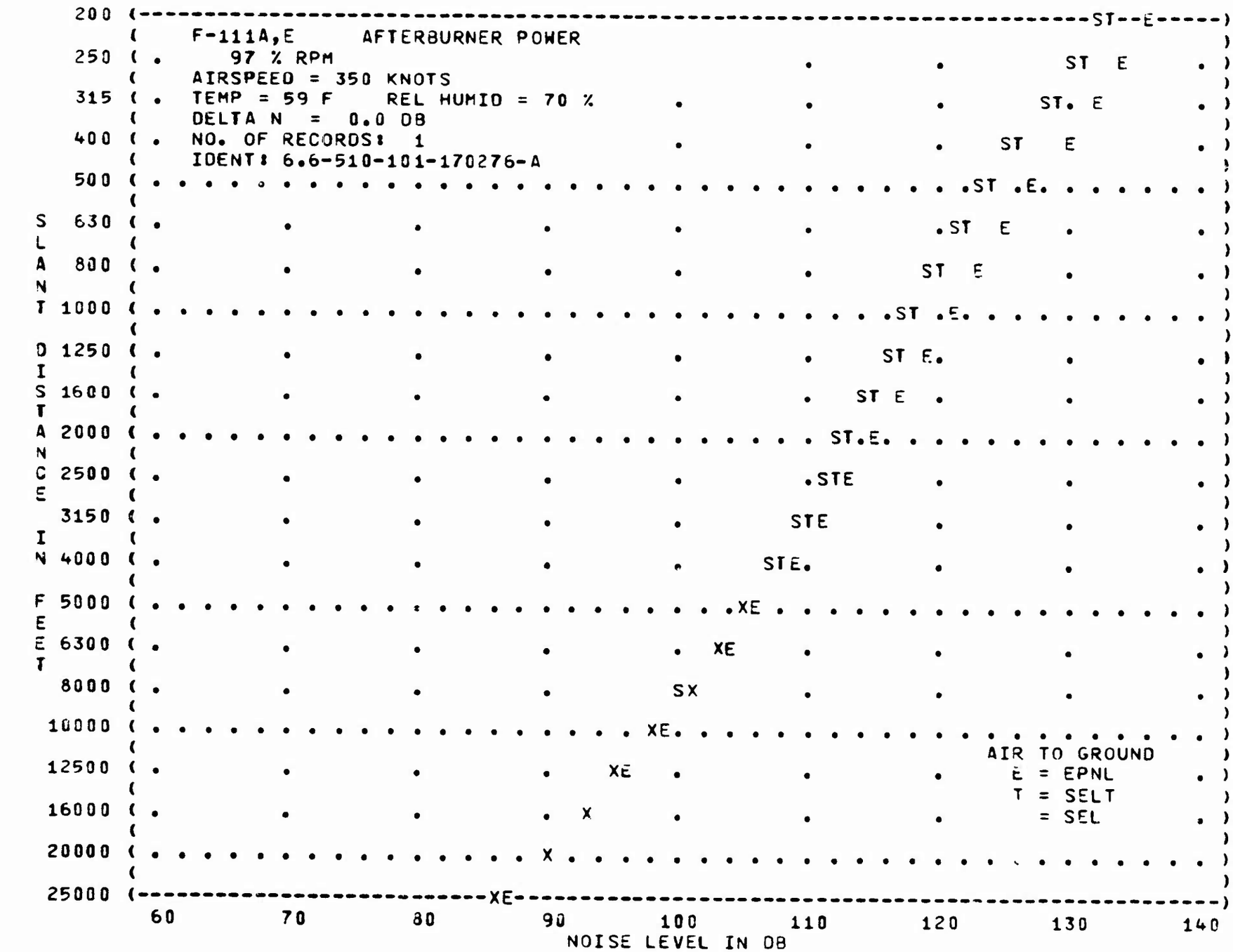

F-111A,E AFTERBURNER POWER
97 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-510-101-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
= SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-111A,E

OPERATION: AFTERBURNER POWER, 97 % RPM, AIRSPEED = 350 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 510
OPS CODE: 101
PROFILE VER: A
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PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER 17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	104	103	101	112	119	121	118	116	120	116	118	117	115	114	114	114	114	113	114	115	114	117	123	131
250	102	101	98	110	117	119	116	114	118	114	116	115	113	112	112	112	112	111	112	112	111	114	120	128
315	100	99	96	108	115	117	114	111	116	112	114	113	111	110	110	110	110	109	109	110	109	111	116	123
400	98	97	94	106	113	115	112	109	114	110	112	111	109	108	107	108	108	106	107	107	106	108	112	119
500	96	95	92	104	111	112	109	107	112	108	110	109	107	105	105	105	105	104	104	104	103	104	108	114
630	94	93	90	102	108	110	106	105	110	106	108	107	105	103	103	103	103	101	101	101	99	100	103	107
800	92	91	88	100	106	107	104	102	108	104	105	104	102	101	101	100	100	99	98	97	96	96	98	100
1000	90	89	86	97	103	104	101	99	106<	102	103	102	100	99	98	98	98	96	95	93	92	91	91	92
1250	88	87	83	94	99	101	98	96	103	99	101	100	98	96	96	95	95	92	91	89	87	85	84	81
1600	86	83	80	90	96	98	94	92	99	97	99	97	95	94	93	92	91	89	87	84	81	78	74	69
2000	83	80	76	86	92	94	90	88	96	95	96	95	93	91	90	89	88	85	82	78	75	70	63	54
2500	80	76	72	82	88	89	86	84	92	91	94	92	90	88	87	86	84	80	77	72	67	60	50	35
3150	76	71	67	77	83	84	81	79	87	87	90	90	87	85	83	82	80	75	71	64	58	48	34	12
4000	71	66	62	72	77	79	75	73	82	82	86	86	84	81	80	77	75	69	64	55	48	34	14	
5000	66	62	57	67	73	74	70	68	76	76	82	82	80	78	75	73	69	63	55	43	35	16		
6300	61	57	53	62	68	69	65	63	70	71	78	77	76	73	70	67	62	54	45	30	19			
8000	59	55	50	60	65	67	63	60	67	68	74	74	72	69	65	60	54	45	32	13				
10000	57	53	48	58	63	64	60	57	64	64	70	69	67	63	58	52	45	33	17					
12500	54	50	46	55	60	61	57	54	61	61	66	64	61	56	51	43	34	19						
16000	52	48	43	53	58	58	54	51	57	56	61	59	55	49	42	32	20	1						
20000	50	46	41	50	55	55	51	47	53	52	56	52	47	40	31	18	3							
25000	47	43	38	47	52	52	47	43	48	46	49	45	38	29	17	2								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-111A,E

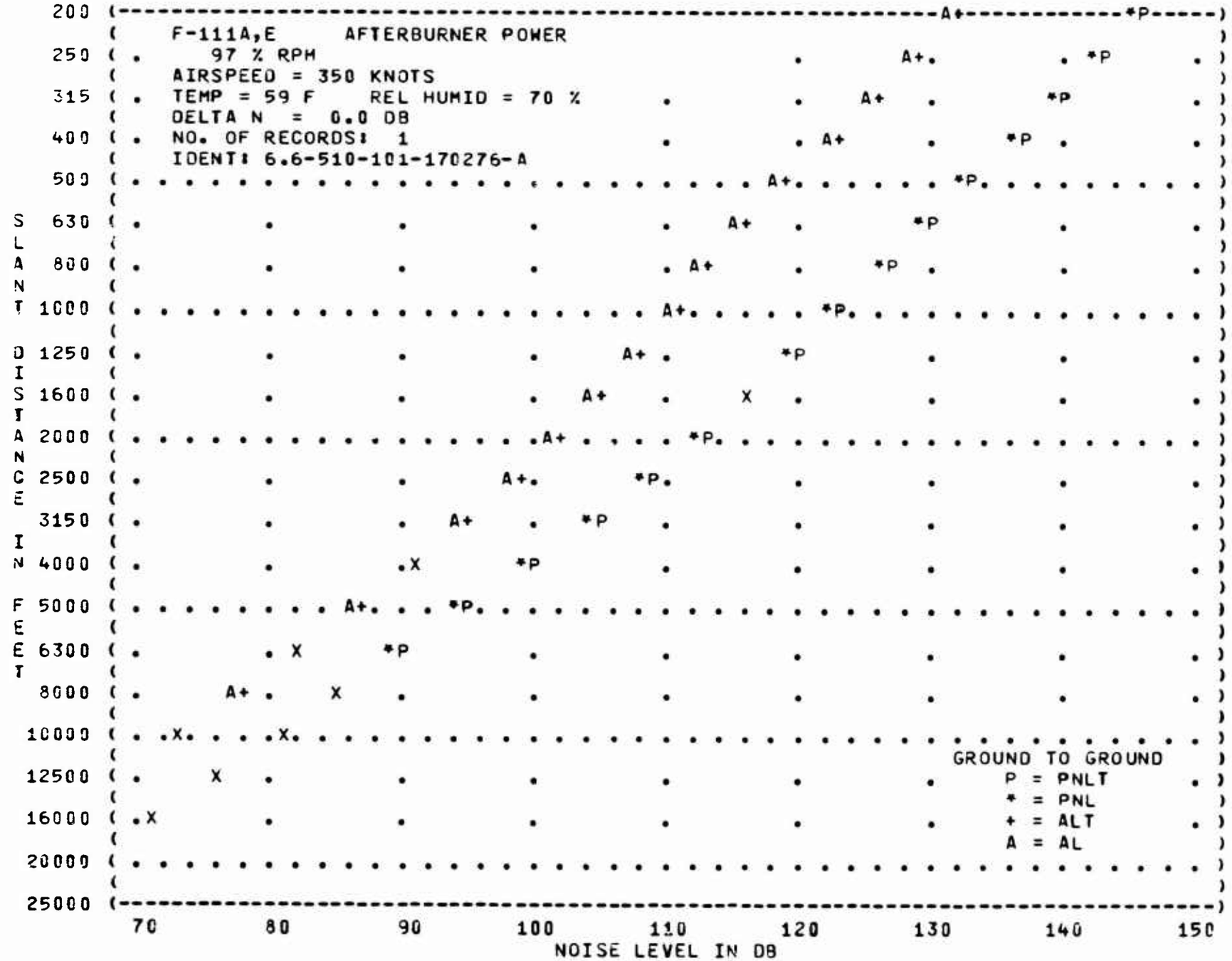
OPERATION:
AFTERBURNER POWER
97 % RPM
AIRSPEED = 350 KNOTS

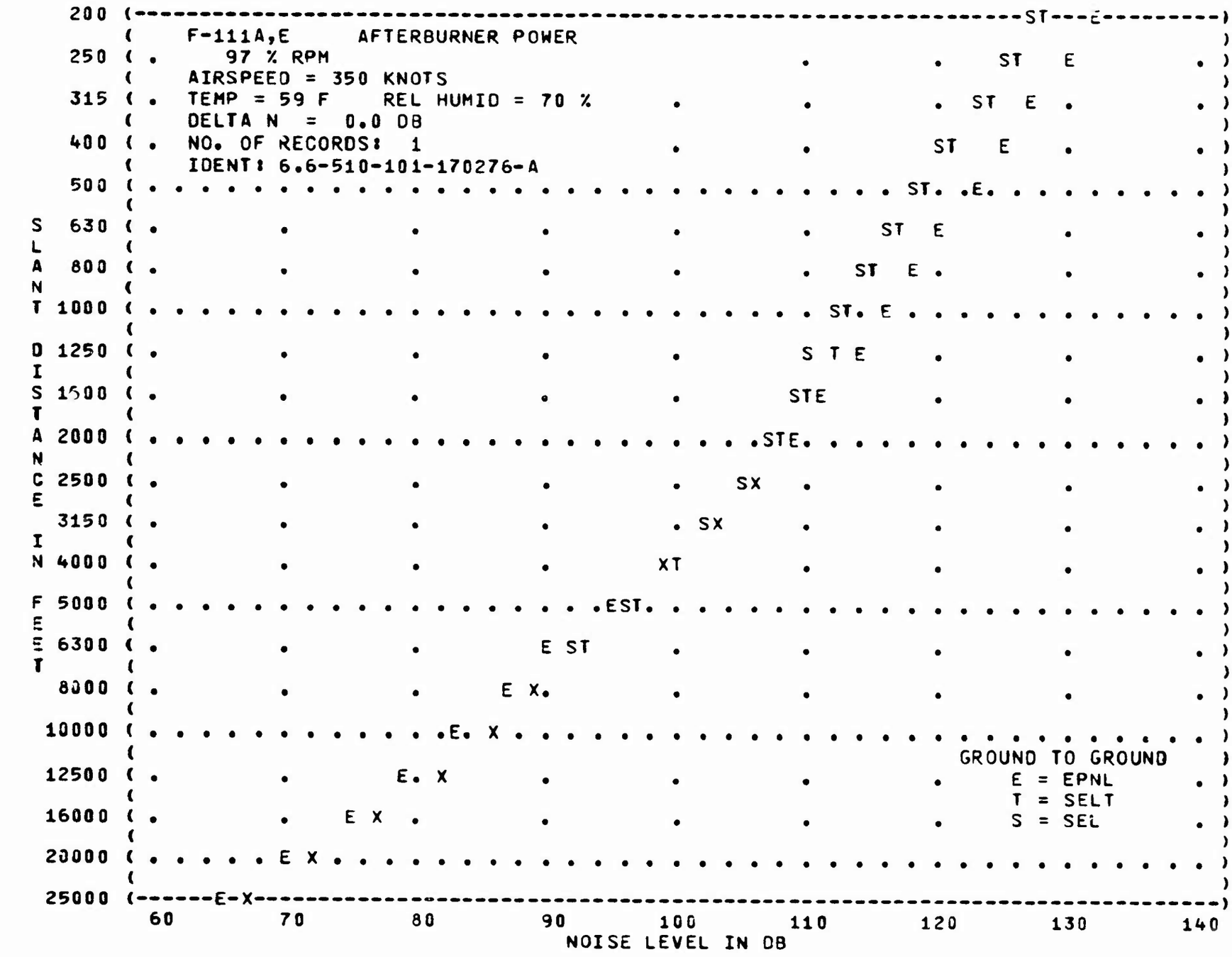
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

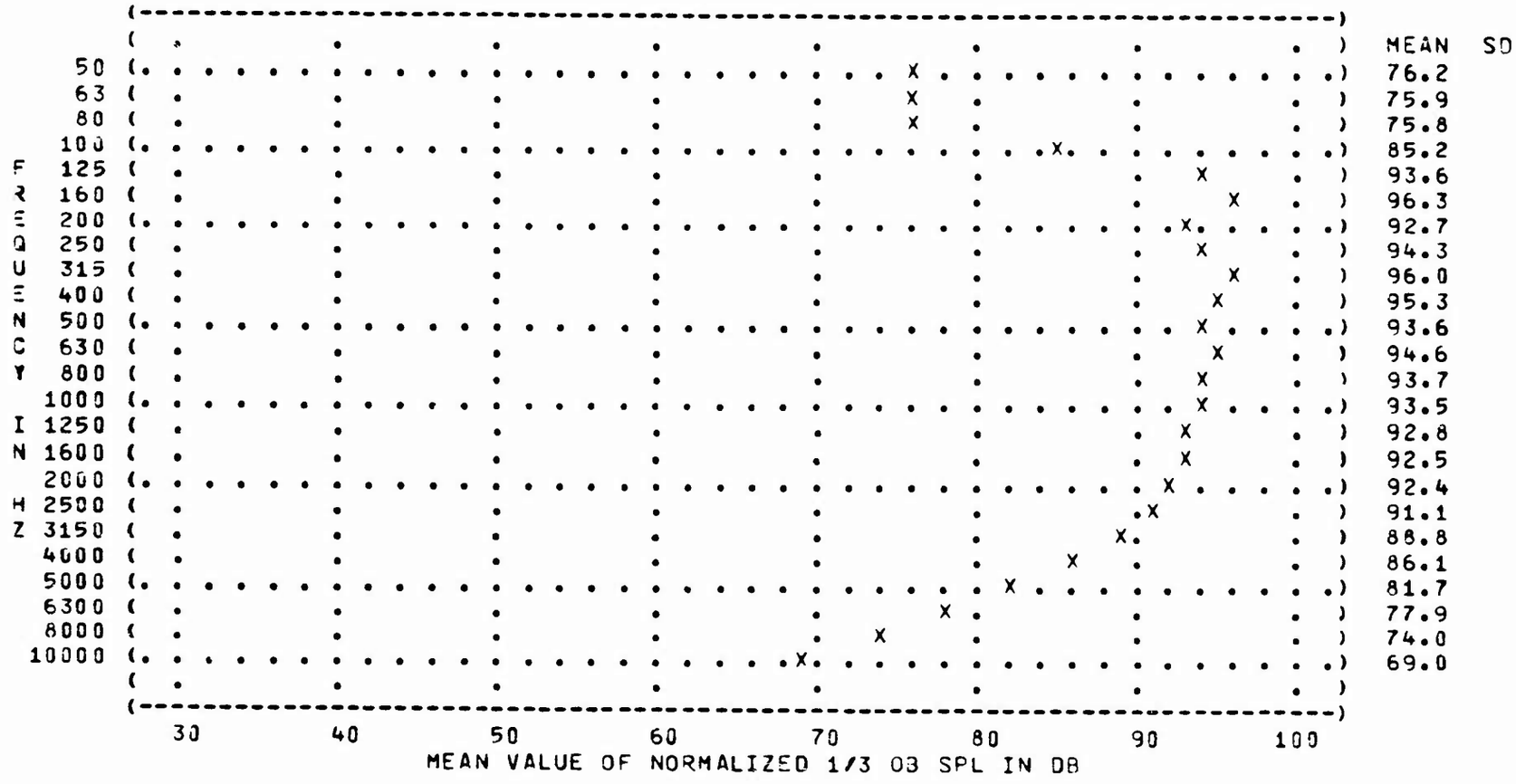
A/C CODE: 510
OPS CODE: 101
PROFILE VER: A
17 FEB 76
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	131.2	132.1	145.0	145.9	126.8	128.0	131.5
250	128.1	129.0	142.1	143.0	124.8	125.9	129.6
315	124.9	125.8	139.0	139.9	122.6	123.7	127.5
400	121.7	122.6	135.6	136.5	120.3	121.4	125.2
500	118.4	119.3	132.1	133.0	118.0	119.2	122.6
630	115.3	116.2	128.7	129.6	115.9	117.1	120.3
800	112.4	113.3	125.7	126.6	114.0	115.2	118.2
1000	109.6	110.5	122.4	123.3	112.2	113.4	115.9
1250	106.8	107.7	119.0	119.9	110.5	111.6	113.6
1600	104.0	104.9	115.5	116.4	108.6	109.8	111.1
2000	101.1	102.0	112.0	112.9	106.7	107.9	108.5
2500	97.9	98.8	108.3	109.2	104.6	105.7	105.8
3150	94.5	95.4	104.1	105.0	102.1	103.3	102.6
4000	90.6	91.4	99.4	100.2	99.3	100.2	98.7
5000	86.3	86.8	94.4	95.0	95.9	96.6	94.5
6300	81.6	82.0	89.2	89.6	92.3	92.7	90.0
8000	77.4	77.6	85.0	85.2	89.1	89.3	86.6
10000	72.9	72.9	80.5	80.5	85.5	85.5	82.9
12500	68.0	68.0	75.8	75.8	81.6	81.6	79.1
16000	62.6	62.6	70.5	70.5	77.3	77.3	74.9
20000	56.8	56.8	64.8	64.8	72.4	72.4	70.2
25000	50.5	50.5	58.2	58.2	67.1	67.1	64.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111A,E AFTERBURNER POWER
97 % RPH
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-510-101-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-111A,E AFTERBURNER POWER
97 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-510-101-170276-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1500
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB



F-111A,E TAKEOFF POWER 97 % RPM

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-510-103-170276

PNLT = 116.0 PNDB
PNL = 115.5 PNDB
ALT = 103.6 DBA
AL = 103.0 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111A,E

OPERATION:
TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 510
OPS CODE: 103
PROFILE VER: A
17 FEB 76
PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	90	90	90	99	108	111	107	109	110	110	108	109	109	109	108	109	109	109	108	107	104	104	105	108
250	86	88	88	97	106	108	105	107	108	108	106	107	107	107	106	107	107	107	105	105	101	101	102	104
315	86	86	86	95	104	106	103	105	106	106	104	105	105	105	104	104	105	104	103	102	99	98	98	100
400	84	84	84	93	102	104	101	103	104	104	102	103	103	103	102	102	102	102	101	99	96	95	95	96
500	82	82	82	91	100	102	99	101	102	102	100	101	100	100	100	100	100	99	98	96	93	91	91	90
630	80	80	80	89	98	100	97	98	100	100	98	99	98	98	98	98	98	97	95	93	89	87	86	84
800	78	78	78	87	96	98	95	96	98	97	96	97	96	96	95	95	95	94	92	90	86	83	80	77
1000	76	76	76	85	94	96<	93	94	96	95	94	95	94	94	93	93	92	91	89	86	82	78	74	69
1250	74	74	74	83	92	94	91	92	94	93	91	92	91	91	90	90	89	88	85	82	77	72	67	59
1600	72	72	72	81	89	92	89	90	92	91	89	90	89	89	88	87	86	84	81	77	72	65	58	47
2000	70	70	70	79	87	90	86	88	89	89	87	88	86	86	85	84	83	81	77	71	65	57	47	32
2500	68	68	68	77	85	88	84	86	87	86	84	85	84	83	82	80	79	76	71	65	58	48	34	14
3150	66	66	66	75	83	86	82	83	85	84	82	82	81	80	78	77	75	71	65	57	49	36	18	
4000	64	64	63	73	81	84	80	81	82	81	79	79	78	76	75	72	70	65	58	48	39	23		
5000	62	61	61	71	79	81	77	79	80	79	76	76	74	73	70	68	64	59	50	37	26	6		
6300	60	59	59	68	77	79	75	76	77	76	73	73	71	69	66	62	58	51	40	24	11			
8000	58	57	57	66	74	76	72	73	74	73	70	69	66	64	60	56	50	41	28	8				
10000	55	55	55	64	72	74	70	71	71	69	66	65	62	58	54	48	41	30	13					
12500	53	53	52	61	69	71	67	68	68	66	62	60	56	52	46	39	30	16						
16000	51	50	50	59	67	68	64	64	64	61	57	55	50	45	37	28	17							
20000	49	48	47	56	64	65	60	61	60	57	52	49	42	36	27	15	0							
25000	46	45	45	53	61	62	57	56	56	51	46	41	33	25	14									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111A,E

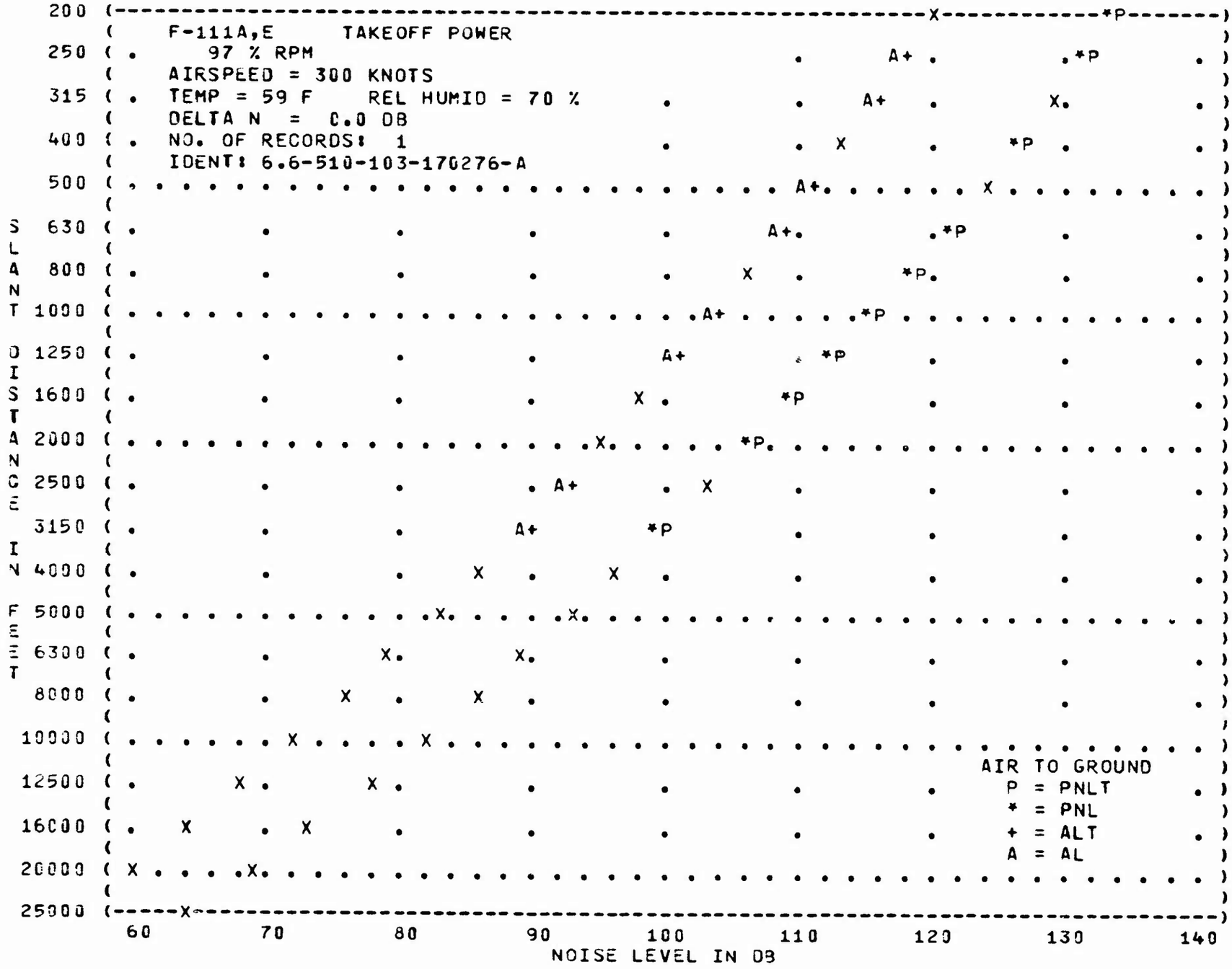
OPERATION:
TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 510
OPS CODE: 103
PROFILE VER: A
17 FEB 76
PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	119.7	120.3	133.3	133.8	119.8	120.9	123.2
250	117.5	118.0	131.0	131.5	118.5	119.6	121.9
315	115.2	115.7	128.7	129.2	117.3	118.4	120.6
400	112.9	113.4	126.2	126.8	115.9	117.0	119.1
500	110.5	111.0	123.7	124.2	114.6	115.7	117.6
630	108.1	108.6	121.1	121.6	113.1	114.2	116.0
800	105.6	106.1	118.4	118.9	111.6	112.7	114.3
1000	103.0	103.6	115.5	116.0	110.1	111.2	112.4
1250	100.4	100.9	112.5	113.0	108.5	109.6	110.4
1600	97.7	98.2	109.3	109.8	106.8	107.9	108.2
2000	94.9	95.4	106.0	106.5	105.0	106.1	105.9
2500	92.0	92.5	102.5	103.1	103.1	104.2	103.4
3150	89.0	89.5	99.2	99.7	101.0	102.1	101.1
4000	85.9	86.3	96.0	96.4	98.9	99.8	98.7
5000	82.6	82.9	92.6	92.9	96.7	97.3	96.1
6300	79.2	79.5	89.1	89.4	94.3	94.7	93.4
8000	75.7	75.8	85.5	85.6	91.8	92.0	90.6
10000	72.1	72.1	81.7	81.7	89.1	89.1	87.6
12500	68.2	68.2	77.7	77.7	86.3	86.3	84.5
16000	64.2	64.2	73.4	73.4	83.3	83.3	81.2
20000	60.0	60.0	69.0	69.0	80.0	80.0	77.8
25000	55.5	55.5	64.4	64.4	76.6	76.6	74.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111A,E TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-510-103-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

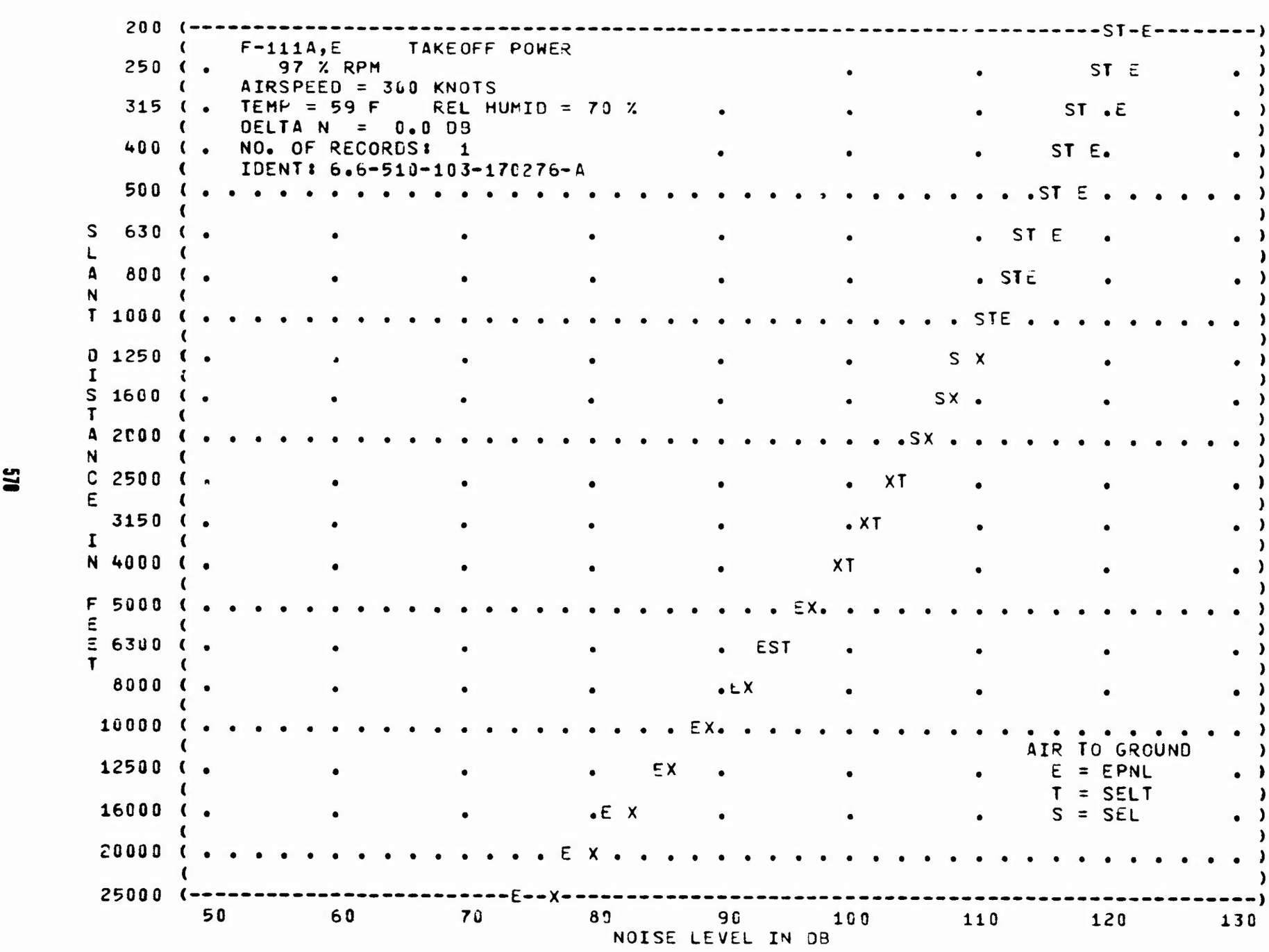

F-111A,E TAKEOFF POWER
97 % RPM
AIRSPEED = 360 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-510-103-170276-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111A,E

OPERATION:
TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 510
OPS CODE: 103
PROFILE VER: A
17 FEB 76
PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	85	85	85	94	103	106	102	104	105	105	103	104	104	104	103	104	104	104	103	102	99	99	100	103
250	83	83	83	92	101	103	100	102	103	103	101	102	102	102	101	102	102	102	100	100	96	96	97	99
315	81	81	81	90	99	101	98	100	101	101	99	100	100	100	99	99	100	99	98	97	94	93	93	95
400	79	79	79	88	97	99	96	98	99	99	97	98	98	98	97	97	97	97	96	94	91	90	90	91
500	77	77	77	86	95	97	93	95	97	97	95	96	95	95	95	95	95	94	93	91	88	86	86	85
630	75	75	75	84	92	94	91	93	95	95	93	94	93	93	93	93	93	92	90	88	84	82	81	79
800	73	73	73	82	89	91	88	90	93	92	91	92	91	91	90	90	90	89	87	85	81	78	75	72
1000	71	71	71	79	86	89	85	87	91	90	89	90	89	89	88	88	87	86	84	81	77	73	69	64
1250	69	69	68	76	83	85	82	84	88	88	86	87	86	86	85	85	84	83	80	77	72	67	62	54
1600	67	66	64	72	80	82	78	80	85	86	84	85	84	84	83	82	81	79	76	72	67	60	53	42
2000	64	62	61	69	76	78	74	76	81	84	82	83	81	81	80	79	78	76	72	66	60	52	42	27
2500	60	58	57	64	72	74	70	72	77	80	79	80	79	78	77	75	74	71	66	60	53	43	29	9
3150	56	54	52	59	67	69	65	67	72	76	76	77	76	75	73	72	70	66	60	52	44	31	13	
4000	52	49	47	54	61	63	59	61	67	71	72	74	73	71	70	67	65	60	53	43	34	18		
5000	47	44	42	49	56	58	54	56	61	65	68	70	69	68	65	63	59	54	45	32	21	1		
6300	42	39	37	44	52	53	49	51	55	60	63	65	65	64	61	57	53	46	35	19	6			
8000	40	37	35	42	49	51	47	48	52	57	60	61	60	59	55	51	45	36	23	3				
10000	37	35	33	40	47	48	44	46	49	53	56	57	56	53	49	43	36	25	8					
12500	35	33	30	37	44	46	41	43	46	50	52	52	50	47	44	34	25	11						
16000	33	30	28	35	42	43	38	39	42	45	47	47	44	41		23	12							
20000	31	28	25	32	39	40	35	36	38	41	42	41	36	3		10								
25000	28	25	23	29	36	36	31	31	34	35	36	33	2											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF [illegible]: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-111A,E

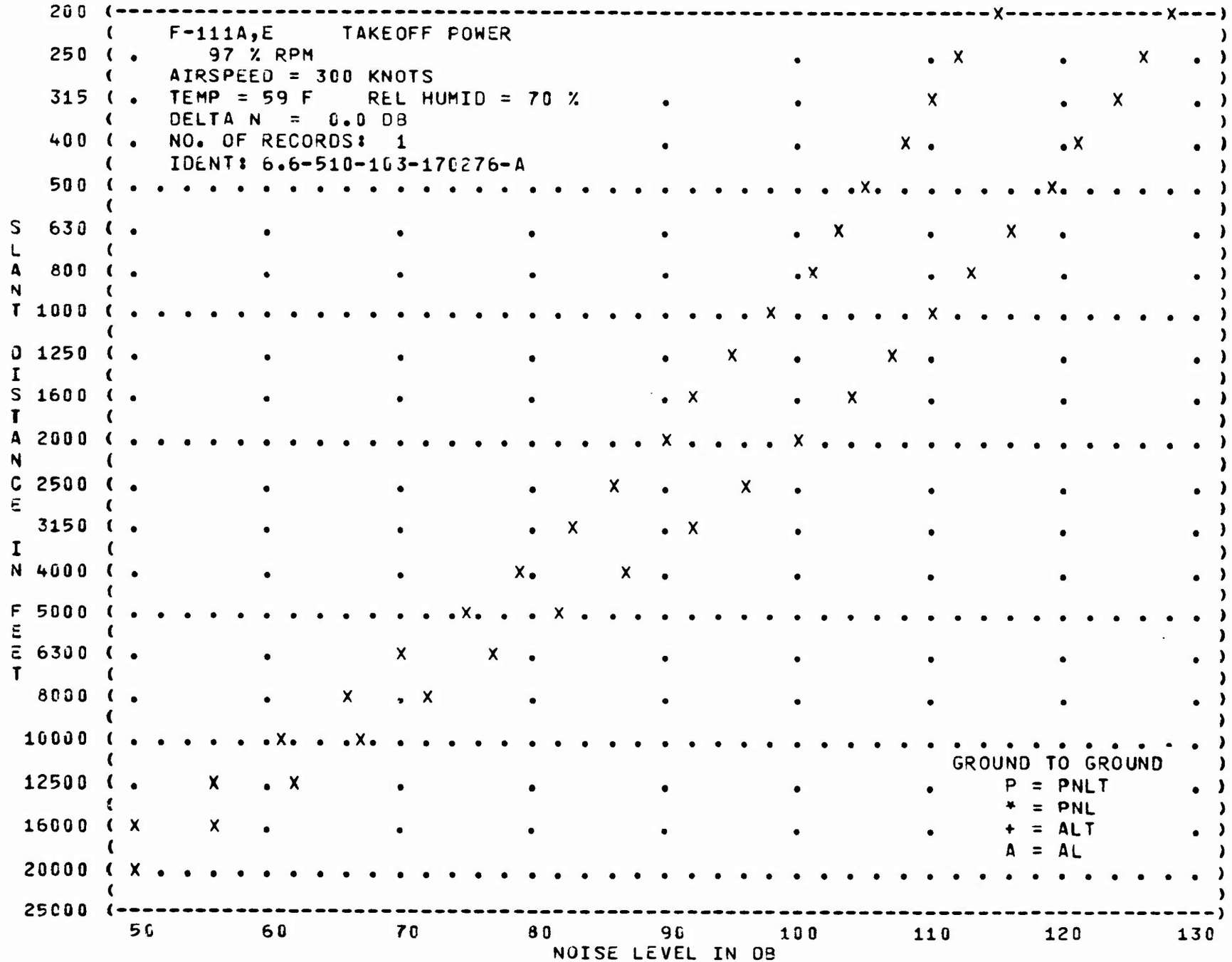
OPERATION:
TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS

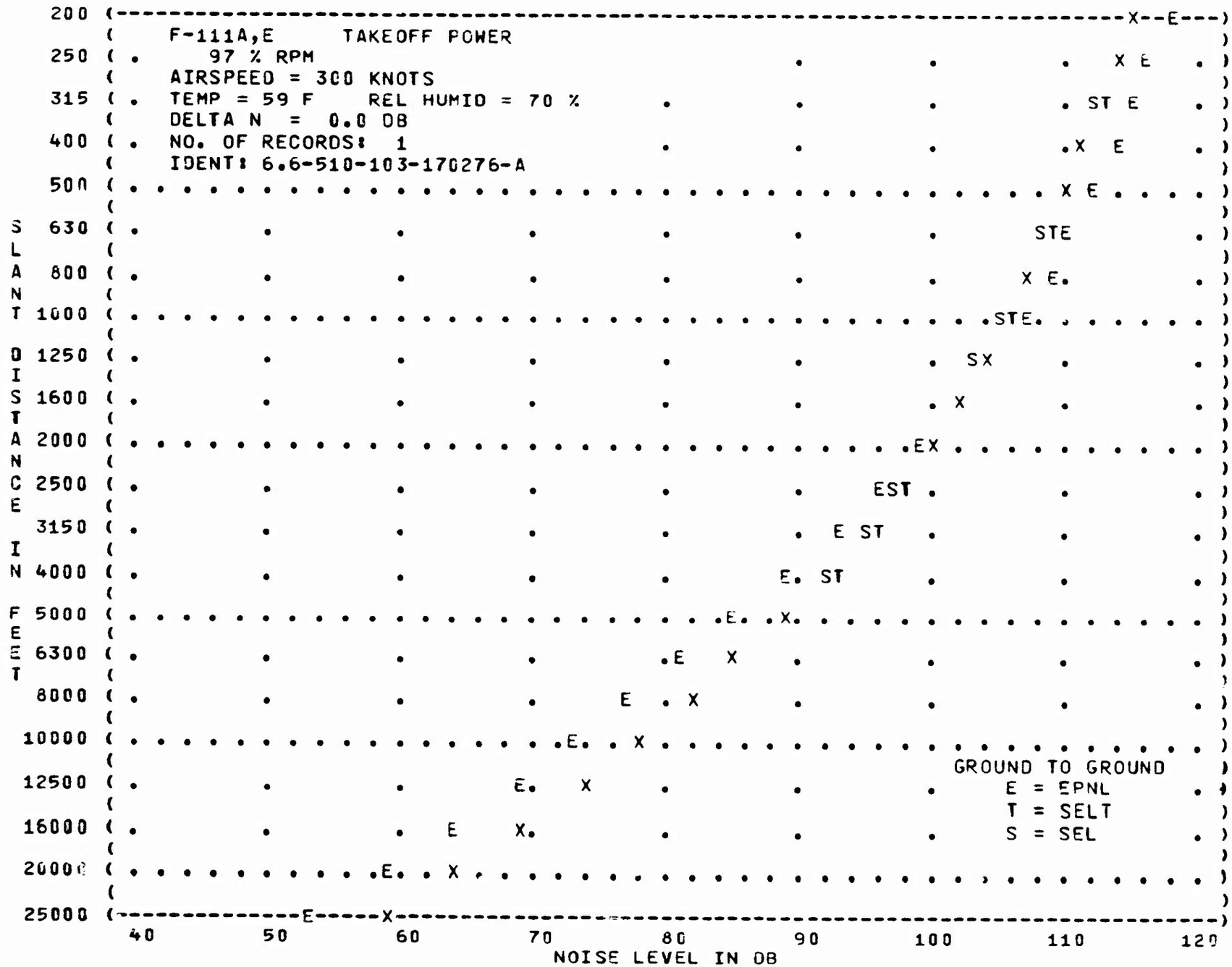
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

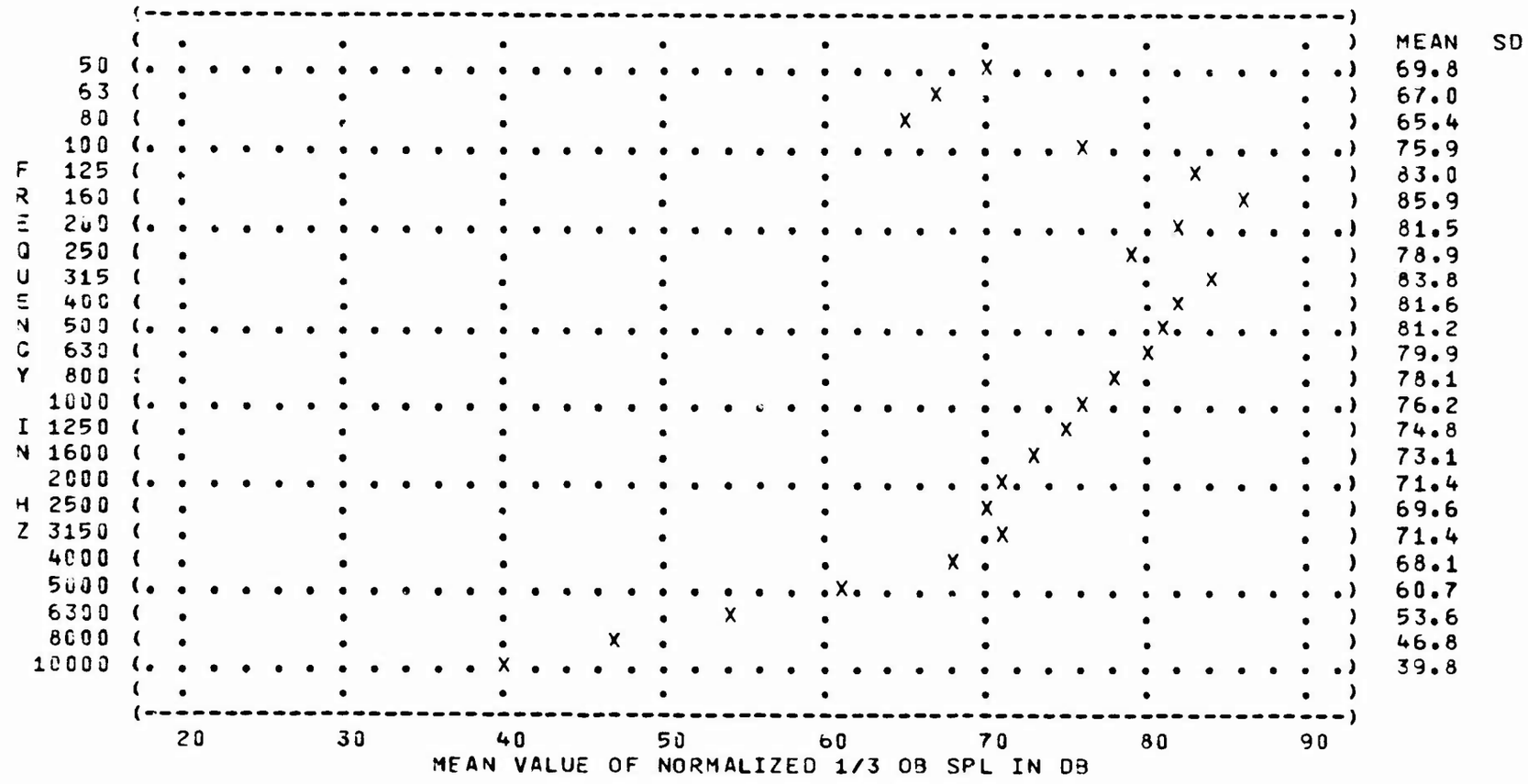
A/C CODE: 510
OPS CODE: 103
PROFILE VER: A
17 FEB 76
PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	114.7	114.7	128.3	128.3	114.8	115.4	117.7
250	112.5	112.5	126.0	126.0	113.5	114.1	116.4
315	110.2	110.2	123.6	123.6	112.3	112.8	115.0
400	107.9	107.9	121.2	121.2	110.9	111.5	113.6
500	105.5	105.5	118.7	118.7	109.5	110.1	112.1
630	103.0	103.0	116.0	116.0	108.1	108.7	110.4
800	100.5	100.5	113.2	113.2	106.6	107.2	108.6
1000	98.0	98.0	110.2	110.2	105.0	105.6	106.6
1250	95.3	95.3	107.0	107.0	103.3	103.9	104.4
1600	92.5	92.5	103.6	103.6	101.5	102.1	101.9
2000	89.5	89.5	99.9	99.9	99.6	100.2	99.3
2500	86.4	86.4	96.0	96.0	97.4	98.0	96.4
3150	82.9	82.9	91.6	91.6	95.0	95.5	92.9
4000	79.1	79.1	87.0	87.0	92.2	92.6	89.2
5000	74.8	74.8	82.0	82.0	88.9	89.2	85.1
6300	70.2	70.2	76.8	76.8	85.2	85.5	80.8
8000	65.8	65.8	72.3	72.3	81.9	82.0	77.2
10000	61.1	61.1	67.5	67.5	78.1	78.1	73.3
12500	55.9	55.9	62.2	62.2	74.0	74.0	69.0
16000	50.3	50.3	56.4	56.4	69.4	69.4	64.3
20000	44.3	44.3	50.2	50.2	64.3	64.3	59.0
25000	37.7	37.7	42.7	42.7	58.8	58.8	52.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111A,E TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-510-103-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB


F-111A,E TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-510-103-170276-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



F-111A,E APPROACH POWER 81 % RPM

AIRSPEED = 150 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-510-105-170276

PNLT = 99.2 PNDB
PNL = 98.6 PNDB
ALT = 87.5 DBA
AL = 86.9 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111A,E

OPERATION:
APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 510
OPS CODE: 105
PROFILE VER: A
17 FEB 76
PAGE H3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	84	81	80	90	97	100	96	93	98	96	96	95	93	92	90	89	88	87	90	89	83	79	78	79
250	82	79	77	88	95	98	94	91	96	94	94	93	91	89	88	87	86	85	88	87	80	77	75	75
315	80	77	75	86	93	96	92	89	94	92	92	91	89	87	86	85	84	83	86	84	78	74	71	71
400	78	75	73	84	91	94	90	87	92	90	90	89	87	85	84	83	82	80	83	81	75	70	68	67
500	76	73	71	82	89	92	88	85	90	88	88	86	85	83	82	80	79	78	81	78	72	67	63	61
630	74	71	69	80	87	90	86	83	88	86	86	84	83	81	80	78	77	75	78	75	69	63	59	55
800	72	69	67	78	85	88	84	81	86	84	83	82	80	79	77	76	74	73	75	72	65	59	53	48
1000	70	67	65	76	83	86<	82	79	84	82	81	80	78	76	75	73	71	70	71	68	61	54	47	40
1250	68	65	63	74	81	84	79	77	82	79	79	78	76	74	72	70	68	66	68	64	56	48	39	30
1600	66	63	61	72	79	82	77	75	79	77	77	75	73	71	70	67	65	63	64	59	51	41	30	18
2000	64	61	59	70	77	80	75	72	77	75	74	73	71	69	67	64	62	59	59	53	44	33	20	3
2500	62	59	57	68	75	78	73	70	75	73	72	70	68	66	64	61	58	55	54	47	37	23	7	
3150	60	57	55	66	73	75	71	68	73	70	69	68	65	63	60	57	54	50	48	39	28	12		
4000	58	55	53	63	70	73	69	66	70	68	67	65	62	59	56	53	49	44	41	30	18			
5000	55	53	51	61	68	71	66	63	68	65	64	62	59	55	52	48	43	37	32	19	5			
6300	53	50	49	59	66	68	64	61	65	62	61	58	55	51	48	43	37	29	22	6				
8000	51	48	47	57	64	66	61	58	62	59	57	55	51	46	42	36	29	20	10					
10000	49	46	44	54	61	64	59	55	59	56	54	50	46	41	36	28	20	8						
12500	47	44	42	52	59	61	56	52	56	52	49	46	41	35	28	19	9							
16000	45	41	40	50	56	58	53	49	52	48	45	40	34	27	19	8								
20000	42	39	37	47	53	55	49	45	48	43	39	34	27	18	9									
25000	40	37	34	44	50	52	45	41	43	38	33	26	18	8										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-111A,E

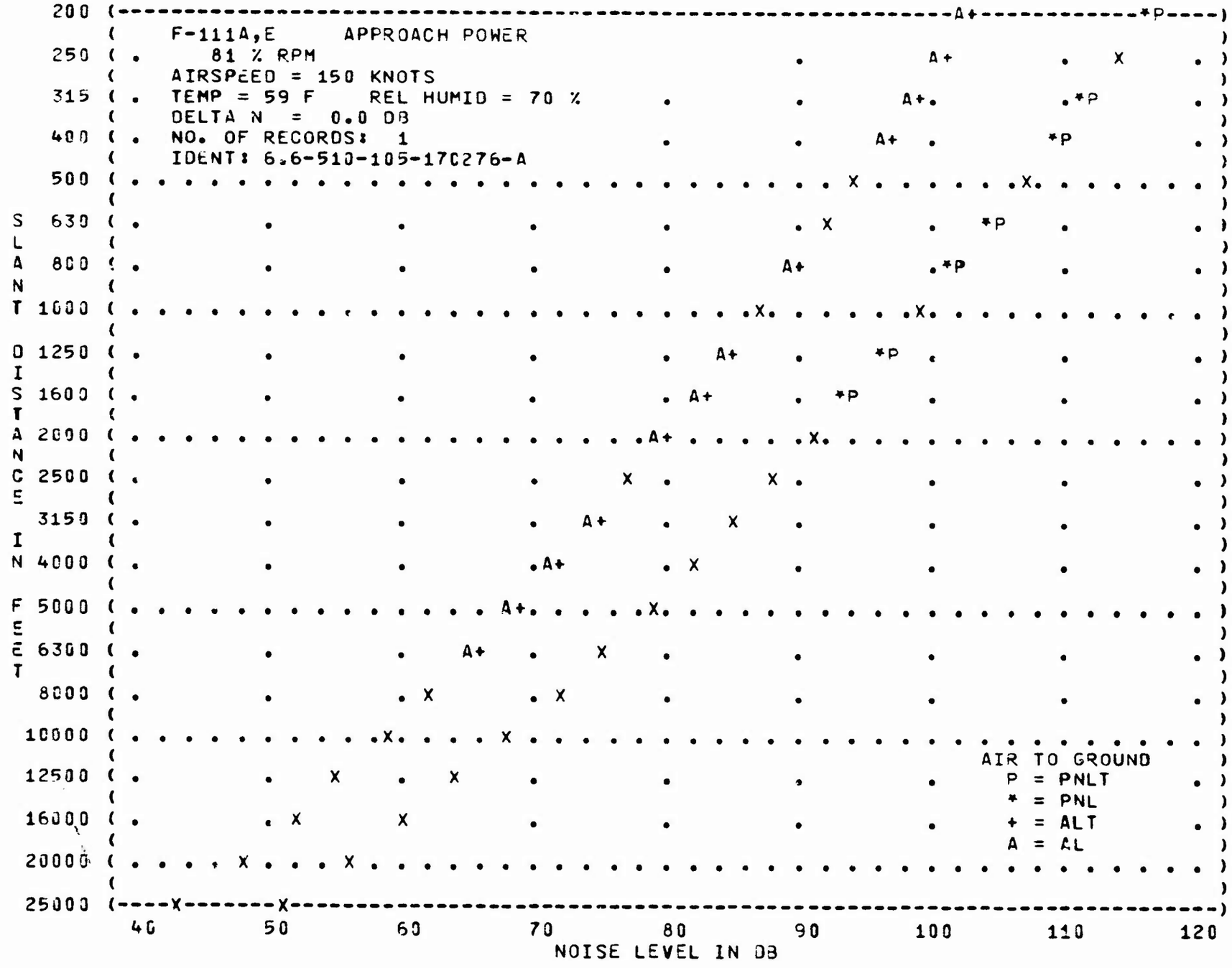
OPERATION:
APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA, N = 0.0 DB

A/C CODE: 510
OPS CODE: 105
PROFILE VER: A
17 FEB 76
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	102.5	103.1	116.0	116.6	103.1	104.5	109.2
250	100.4	101.0	113.8	114.4	102.0	103.4	108.0
315	98.2	98.8	111.4	112.0	100.8	102.2	106.6
400	96.0	96.6	109.1	109.7	99.6	101.0	105.3
500	93.8	94.4	106.6	107.2	98.4	99.8	103.8
630	91.5	92.1	104.0	104.6	97.2	98.6	102.2
800	89.2	89.8	101.3	101.9	95.9	97.3	100.5
1000	86.9	87.5	98.6	99.2	94.5	95.9	98.8
1250	84.5	85.1	96.0	96.6	93.1	94.5	97.2
1600	82.0	82.6	93.3	94.0	91.6	93.0	95.5
2000	79.5	80.1	90.6	91.2	90.1	91.5	93.8
2500	76.9	77.5	87.7	88.3	88.5	89.9	91.9
3150	74.2	74.8	84.8	85.4	86.8	88.2	90.0
4000	71.4	71.9	81.7	82.2	85.0	86.2	87.6
5000	68.5	68.9	78.5	78.9	83.1	84.0	85.2
6300	65.5	65.7	75.2	75.5	81.1	81.6	82.6
8000	62.3	62.4	71.8	71.9	78.9	79.2	79.9
10000	58.9	58.9	68.1	68.1	76.5	76.5	76.9
12500	55.3	55.3	64.2	64.2	74.0	74.0	74.0
16000	51.6	51.6	60.2	60.2	71.2	71.2	71.0
20000	47.6	47.6	56.0	56.0	68.2	68.2	67.8
25000	43.4	43.4	51.4	51.4	65.0	65.0	64.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111A,E APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-510-105-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

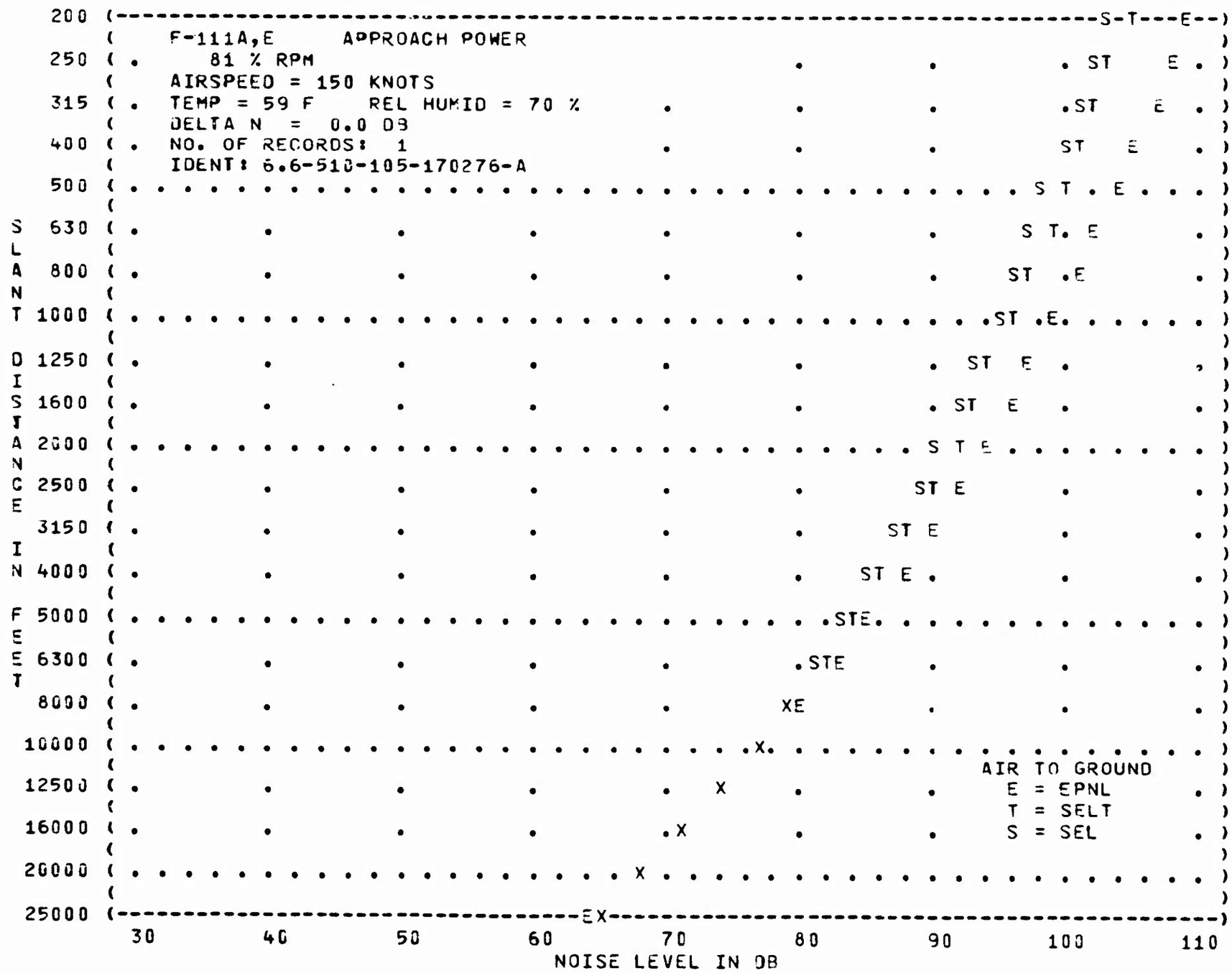

F-111A,E APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-510-105-170276-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111A,E

OPERATION:
APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 510
OPS CODE: 105
PROFILE VER: A
17 FEB 76
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	79	76	75	85	92	95	91	88	93	91	91	90	88	87	85	84	83	82	85	84	78	74	73	74
250	77	74	72	83	90	93	89	86	91	89	89	88	86	84	83	82	81	80	83	82	75	72	70	70
315	75	72	70	81	88	91	87	84	89	87	87	86	84	82	81	80	79	78	81	79	73	69	66	66
400	73	70	68	79	86	89	85	82	87	85	85	84	82	80	79	78	77	75	78	76	70	65	63	62
500	71	68	66	77	84	86	82	80	85	83	83	81	80	78	77	75	74	73	76	73	67	62	58	56
630	69	66	64	75	81	84	79	77	83	81	81	79	78	76	75	73	72	70	73	70	64	58	54	50
800	67	64	62	73	79	81	77	75	81	79	78	77	75	74	72	71	69	68	70	67	60	54	48	43
1000	65	62	60	70	76	78	74	72	79<	77	76	75	73	71	70	68	66	65	66	63	56	49	42	35
1250	63	60	57	67	73	75	71	68	76	74	74	73	71	69	67	65	63	61	63	59	51	43	34	25
1600	61	57	54	63	69	72	67	65	72	72	72	70	68	66	65	62	60	58	59	54	46	36	25	13
2000	58	53	50	59	65	68	63	61	69	70	69	68	66	64	62	59	57	54	54	48	39	28	15	
2500	54	49	46	55	61	63	59	57	65	66	67	65	63	61	59	56	53	50	49	42	32	18	2	
3150	50	45	41	50	56	58	54	52	60	62	63	63	60	58	55	52	49	45	43	34	23	7		
4000	46	40	36	45	50	53	48	46	55	57	60	59	57	54	51	48	44	39	36	25	13			
5000	40	35	31	40	46	48	43	41	49	52	55	55	53	50	47	43	38	32	27	14	0			
6300	35	30	27	35	41	43	38	36	43	46	51	50	49	46	43	38	32	24	17	1				
8000	33	28	25	33	39	41	36	33	40	43	47	47	45	41	37	31	24	15	5					
10000	31	26	22	30	36	38	33	30	37	40	44	42	40	36	31	23	15	3						
12500	29	24	20	28	34	35	30	27	34	36	39	38	35	30	23	14	4							
16000	27	21	18	26	31	32	27	24	30	32	35	32	28	22	14	3								
20000	24	19	15	23	28	29	24	20	26	27	29	26	21	13	4									
25000	22	17	12	20	25	26	20	16	21	22	23	18	12	3										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-111A,E

OPERATION:
APPROACH POWER
81 % RPM

AIRSPEED = 150 KNOTS

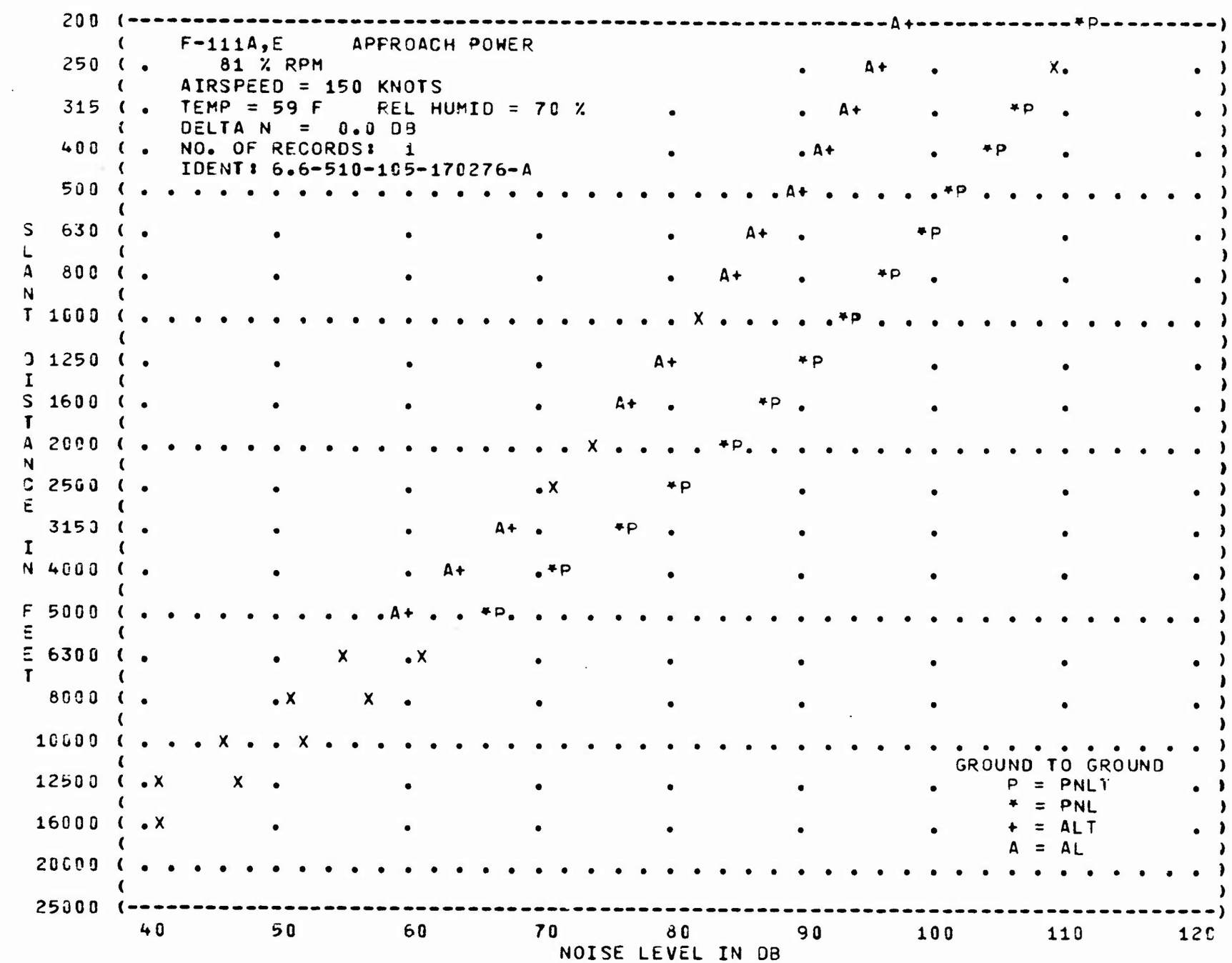
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

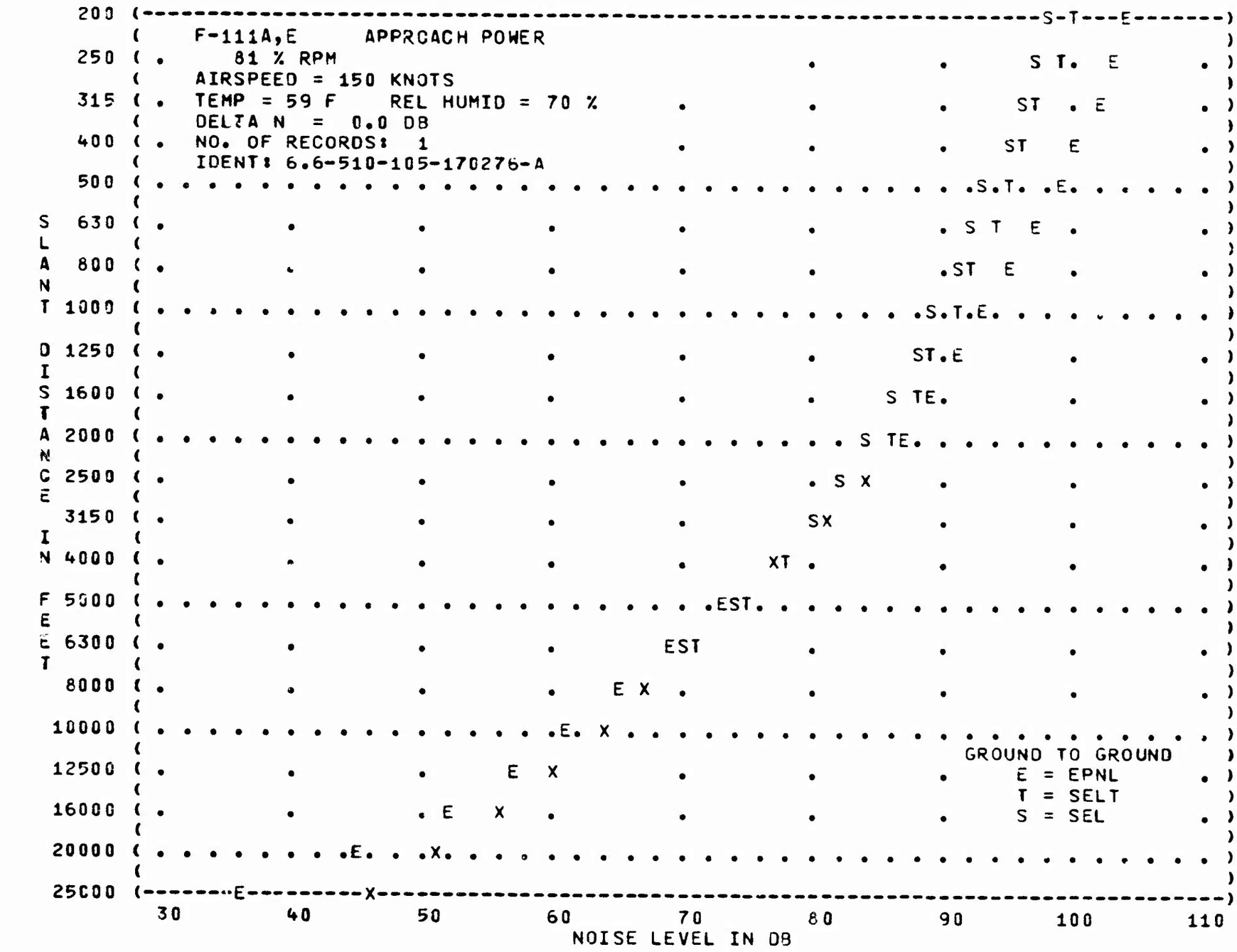
DELTA N = 0.0 DB

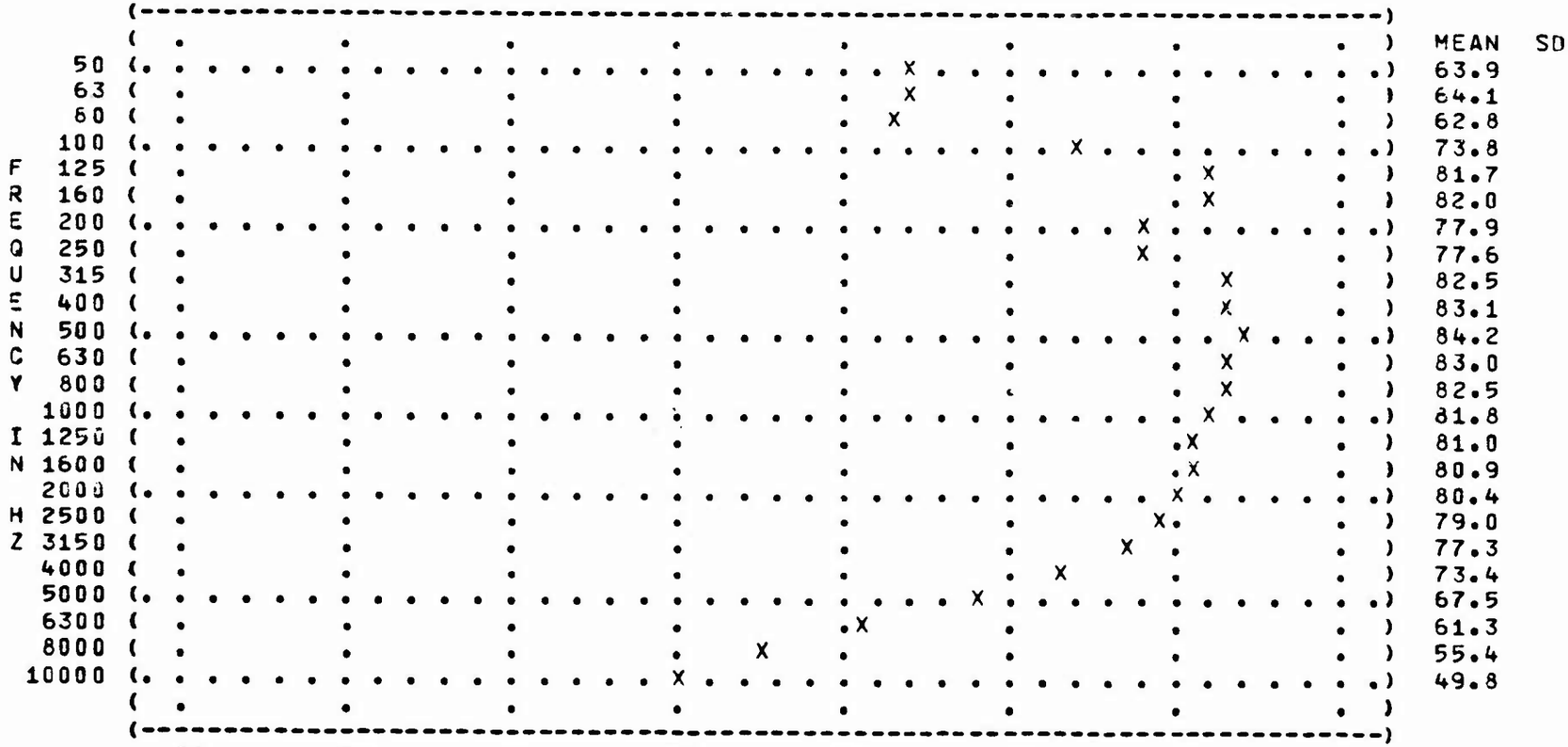
A/C CODE: 510
OPS CODE: 105
PROFILE VER: A
17 FEB 76
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	97.5	98.3	111.0	111.7	98.1	99.7	104.3
250	95.4	96.1	108.7	109.5	97.0	98.5	103.1
315	93.2	94.0	106.4	107.2	95.8	97.4	101.8
400	91.0	91.8	104.0	104.8	94.6	96.2	100.4
500	88.8	89.5	101.5	102.2	93.4	94.9	98.8
630	86.5	87.2	98.8	99.6	92.1	93.6	97.2
800	84.1	84.9	96.0	96.8	90.7	92.3	95.4
1000	81.7	82.4	93.0	93.8	89.3	90.8	93.4
1250	79.1	79.8	90.0	90.7	87.7	89.3	91.3
1600	76.4	77.2	86.9	87.7	86.1	87.6	89.3
2000	73.7	74.4	83.7	84.5	84.3	85.9	87.1
2500	70.6	71.4	80.0	80.8	82.2	83.8	84.4
3150	67.2	68.0	75.9	76.7	79.8	81.4	81.3
4000	63.4	64.0	71.3	71.9	77.0	78.3	77.4
5000	59.1	59.6	66.4	66.9	73.7	74.7	73.1
6300	54.5	54.8	61.2	61.5	70.2	70.8	68.6
8000	50.5	50.7	56.9	57.0	67.1	67.5	65.0
10000	46.1	46.1	52.2	52.2	63.8	63.8	61.0
12500	41.4	41.4	47.0	47.0	60.0	60.0	56.8
16000	36.2	36.2	40.7	40.7	55.8	55.8	51.5
20000	30.5	30.5	32.9	32.9	51.1	51.1	44.7
25000	24.4	24.4	22.9	22.9	46.0	46.0	35.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111A,E APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-510-105-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-111A,E APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-510-105-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-111A,E INTERMEDIATE POWER 86 % RPM

AIRSPEED = 350 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-510-106-170276

PNLT = 103.0 PNDB
PNL = 103.0 PNDB
ALT = 91.3 DBA
AL = 91.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111A,E

OPERATION:
INTERMEDIATE POWER
86 % RPM

AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

DELTA N = 0.0 DB

A/C CODE: 510
OPS CODE: 106
PROFILE VER: A
17 FEB 76
PAGE H4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	78	78	77	88	96	96	92	92	97	98	99	98	98	97	97	97	97	97	96	94	90	87	87	89
250	76	76	75	86	94	94	90	90	95	96	97	96	96	95	95	95	95	94	94	92	87	84	84	85
315	74	74	73	84	92	92	88	88	93	94	95	94	93	93	92	93	93	92	92	89	85	81	80	81
400	72	72	71	82	90	90	86	86	91	92	93	92	91	91	90	91	91	90	89	87	82	78	76	77
500	70	70	69	80	88	88	84	84	89	89	91	90	89	89	88	88	88	87	86	84	79	75	72	72
630	68	68	67	78	86	86	82	82	87	87	89	87	87	86	86	86	86	85	84	81	75	71	67	65
800	66	66	65	76	84	84	80	80	85	85	86	85	85	84	83	83	83	82	81	77	72	66	62	58
1000	64	64	63	74	82	82	78	78	83	83	84	83	83	82	81	81	80	79	77	73	68	61	55	50
1250	62	62	61	72	80	80	76	75	80	81	82	81	80	79	78	78	77	76	74	69	63	55	48	40
1600	60	60	59	70	78	78	74	73	78	79	80	78	78	77	76	75	74	72	70	64	57	49	39	27
2000	58	58	57	68	75	76	72	71	76	76	77	76	75	74	73	72	71	68	65	59	51	41	28	12
2500	56	56	55	66	73	74	69	69	74	74	75	73	72	71	70	69	67	64	60	52	44	31	15	
3150	54	54	53	63	71	71	67	67	71	72	72	71	70	68	66	65	63	59	54	44	35	19		
4000	52	52	50	61	69	69	65	64	69	69	70	68	66	65	63	61	58	53	46	35	24	5		
5000	50	50	48	59	67	67	63	62	66	66	67	65	63	61	58	56	52	46	38	24	12			
6300	47	48	46	57	65	65	60	59	64	64	64	61	59	57	54	50	46	38	28	10				
8000	45	45	44	55	62	62	58	57	61	60	60	58	55	52	48	44	38	29	15					
10000	43	43	42	52	60	60	55	54	58	57	57	53	50	46	42	36	29	17	0					
12500	41	41	39	50	57	57	52	51	54	53	52	49	45	40	34	27	17	3						
16000	39	39	37	47	55	54	49	47	51	49	48	43	38	32	25	16	4							
20000	36	36	34	45	52	51	46	44	47	44	42	37	31	23	14	2								
25000	34	34	32	42	49	48	42	40	42	39	36	29	22	13	1									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-111A,E

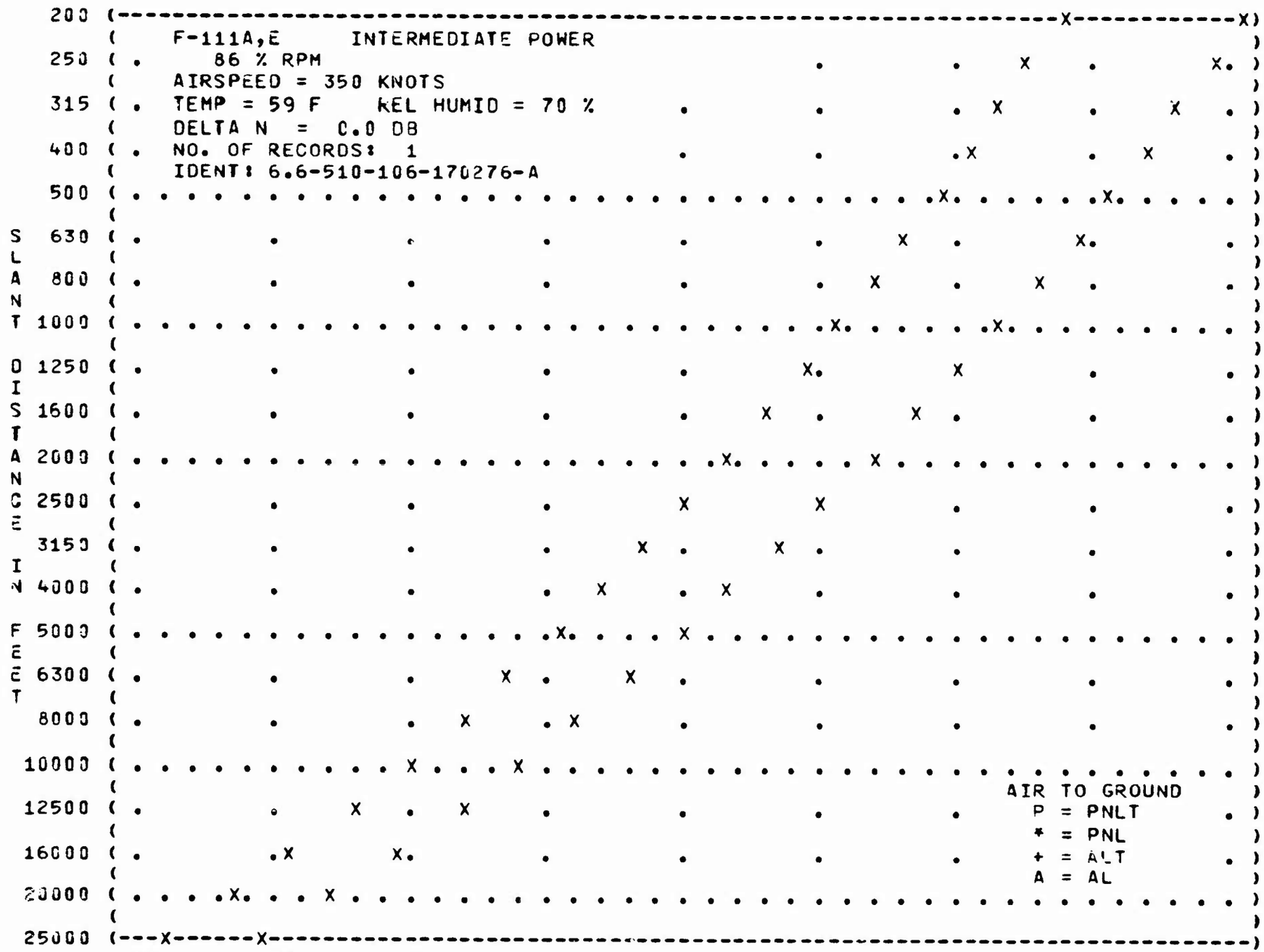
OPERATION:
INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 510
OPS CODE: 105
PROFILE VER: A
17 FEB 76
PAGE I4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	107.6	107.6	120.8	120.8	105.3	106.5	109.5
250	105.5	105.5	118.5	118.5	104.1	105.3	108.2
315	103.2	103.2	116.2	116.2	102.8	104.0	106.9
400	101.0	101.0	113.7	113.7	101.6	102.8	105.4
500	98.6	98.6	111.2	111.2	100.3	101.5	103.9
630	96.3	96.3	108.6	108.6	98.9	100.1	102.3
800	93.8	93.8	105.9	105.9	97.4	98.6	100.5
1000	91.3	91.3	103.0	103.0	95.9	97.1	98.7
1250	88.7	88.7	100.0	100.0	94.3	95.5	96.7
1600	86.0	86.0	96.8	96.8	92.6	93.8	94.5
2000	83.2	83.2	93.5	93.5	90.8	92.0	92.2
2500	80.2	80.2	90.0	90.0	88.9	90.1	89.7
3150	77.2	77.2	86.8	86.8	86.8	88.0	87.5
4000	74.0	74.0	83.4	83.4	84.7	85.6	84.9
5000	70.7	70.7	79.9	79.9	82.3	83.1	82.1
6300	67.2	67.2	76.2	76.2	79.9	80.3	79.2
8000	63.6	63.6	72.4	72.4	77.2	77.5	76.1
10000	59.7	59.7	68.3	68.3	74.4	74.4	72.8
12500	55.6	55.6	64.0	64.0	71.3	71.3	69.5
16000	51.3	51.3	59.3	59.3	67.9	67.9	65.8
20000	46.7	46.7	54.3	54.3	64.3	64.3	61.8
25000	41.9	41.9	48.8	48.8	60.5	60.5	57.3

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111A,E INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-510-106-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

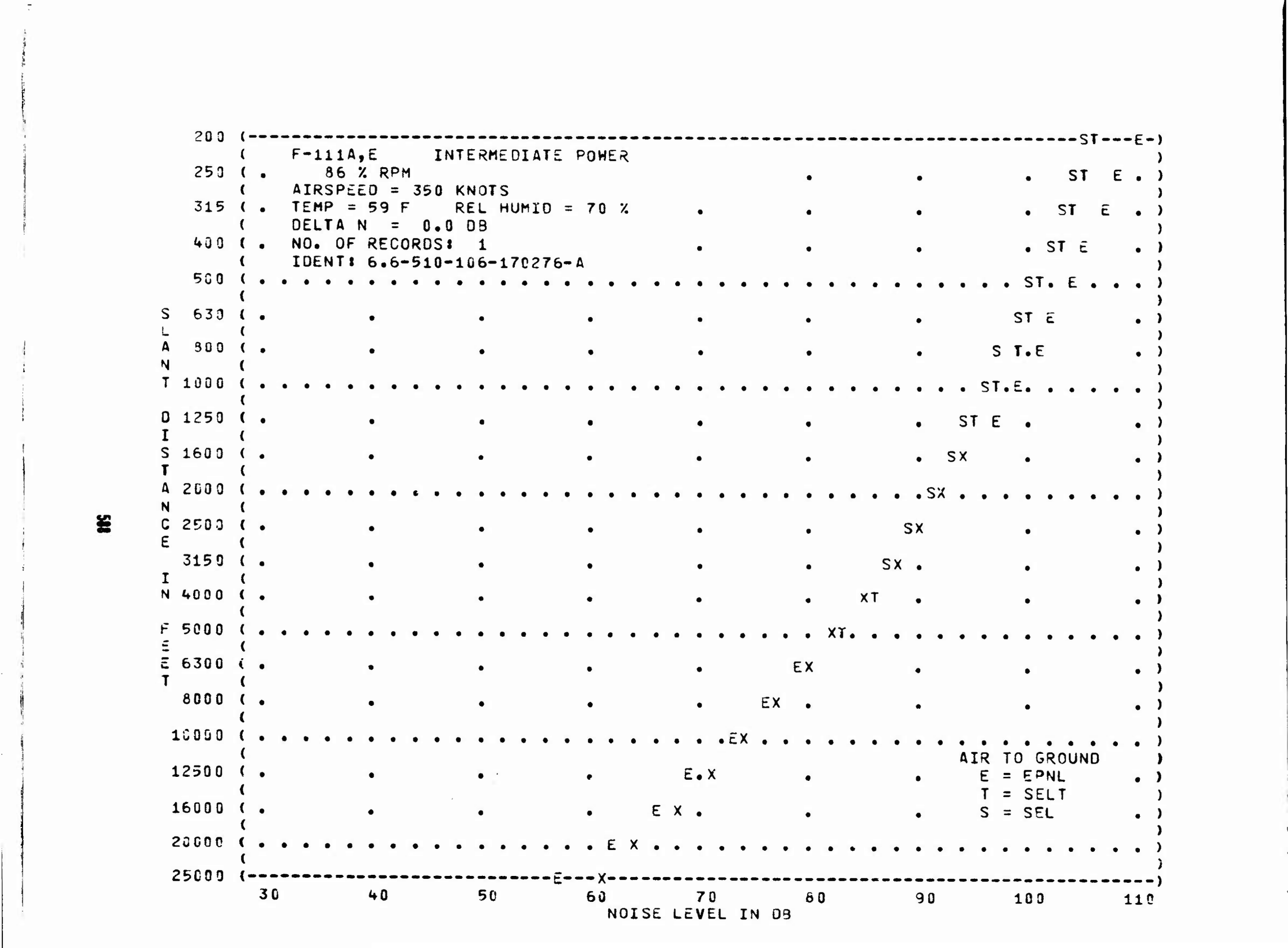

F-111A,E INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-510-106-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111A,E

OPERATION:
INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 510
OPS CODE: 106
PROFILE VER: A
17 FEB 76
PAGE L4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	73	73	72	83	91	91	87	87	92	93	94	93	93	92	92	92	92	92	91	89	85	82	82	84
250	71	71	70	81	89	89	85	85	90	91	92	91	91	90	90	90	90	89	89	87	82	79	79	80
315	69	69	68	79	87	87	83	83	88	89	90	89	88	88	87	88	88	87	87	84	80	76	75	76
400	67	67	66	77	85	85	81	81	86	87	88	87	86	86	85	86	86	85	84	82	77	73	71	72
500	65	65	64	75	83	83	78	79	84	84	86	85	84	84	83	83	83	82	81	79	74	70	67	67
630	63	63	62	73	80	80	76	76	82	82	84	82	82	81	81	81	81	80	79	76	70	66	62	60
800	61	61	60	70	77	77	73	73	80	80	81	80	80	79	78	78	78	77	76	72	67	61	57	53
1000	59	59	58	68	74<	74	70	70	77	78	79	78	78	77	76	76	75	74	72	68	63	56	50	45
1250	57	57	55	64	71	71	67	67	74	76	77	76	75	74	73	73	72	71	69	64	58	50	43	35
1600	55	54	51	61	68	68	63	64	71	74	75	73	73	72	71	70	69	67	65	59	52	44	34	22
2000	52	50	48	57	64	64	60	60	68	71	72	71	70	69	68	67	66	63	60	54	46	36	23	7
2500	48	46	44	53	60	59	55	55	64	68	70	68	67	66	65	64	62	59	55	47	39	26	10	
3150	44	42	39	48	55	54	50	50	59	63	66	66	65	63	61	60	58	54	49	39	30	14		
4000	40	37	33	42	49	49	44	44	54	59	63	62	61	60	58	56	53	48	41	30	19	0		
5000	35	32	29	38	44	44	40	39	48	53	58	58	58	56	53	51	47	41	33	19	7			
6300	29	28	24	33	40	39	35	34	42	48	54	53	53	52	49	45	41	33	23	5				
8000	27	25	22	31	37	37	32	32	39	44	50	50	49	47	43	39	33	24	10					
10000	25	23	20	28	35	34	29	29	36	41	47	45	44	41	37	31	24	12						
12500	23	21	17	26	32	31	26	26	32	37	42	41	39	35	29	22	12							
16000	21	19	15	23	30	29	23	22	29	33	38	35	32	27	20	11								
20000	18	16	12	21	27	25	20	19	25	28	32	29	25	18	9									
25000	16	14	10	18	24	22	16	15	20	23	26	21	16	8										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-111A,E

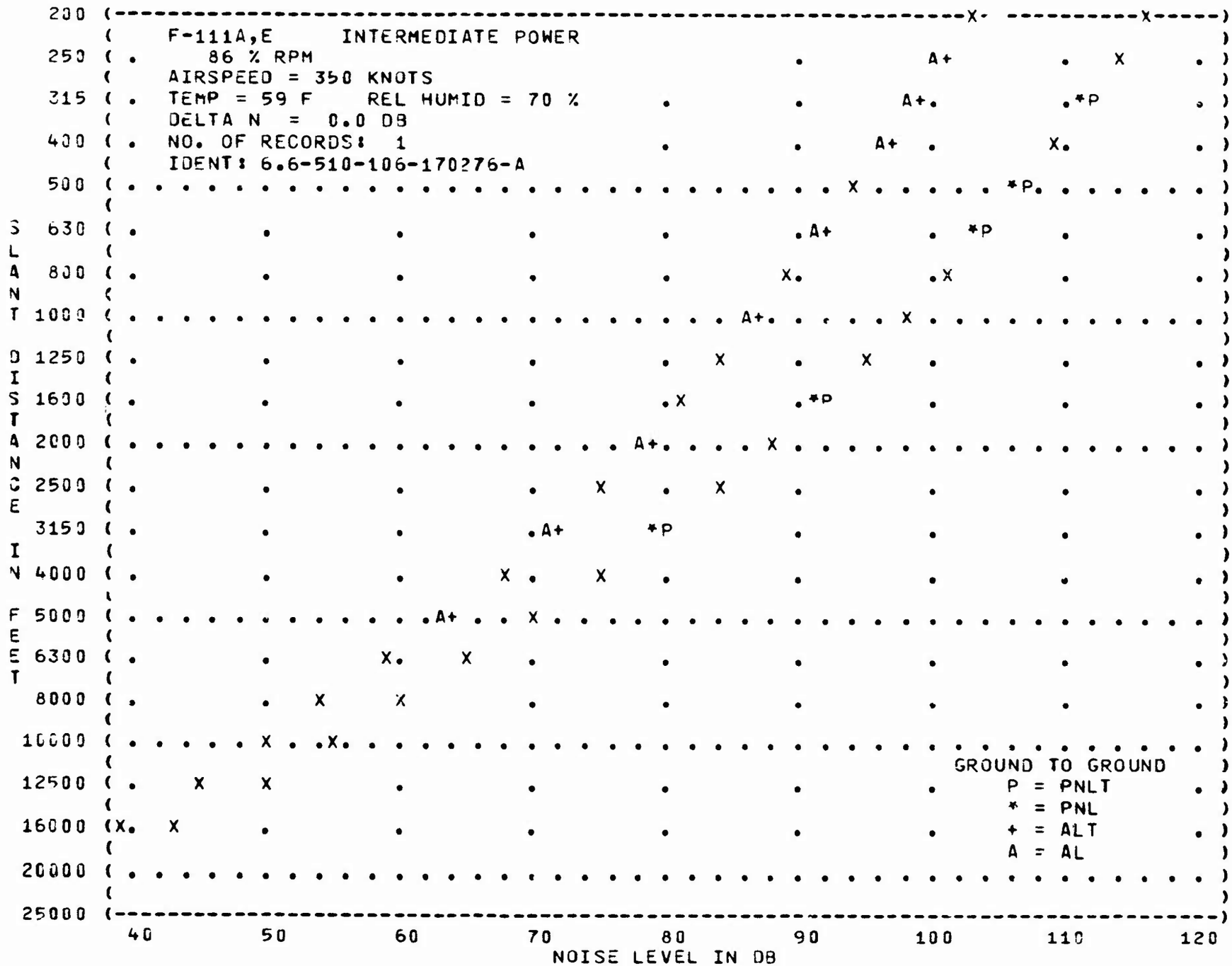
OPERATION:
INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS

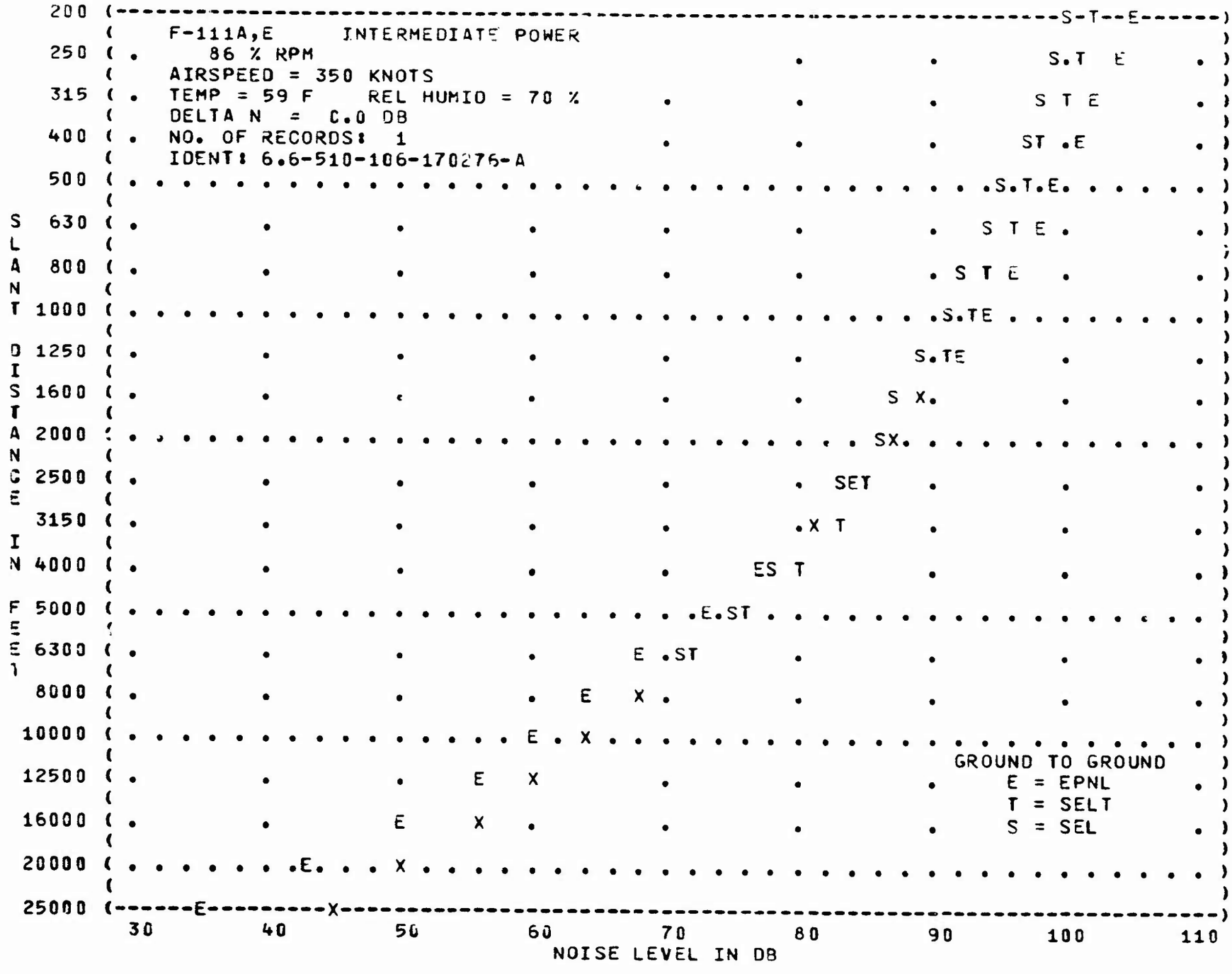
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 510
OPS CODE: 106
PROFILE VER: A
17 FEB 76
PAGE M4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	102.6	103.2	115.8	116.4	100.3	102.1	105.1
250	100.5	101.0	113.5	114.1	99.1	100.9	103.8
315	98.2	98.8	111.2	111.7	97.8	99.6	102.4
400	96.0	96.5	108.7	109.3	96.6	98.4	101.0
500	93.6	94.2	106.1	106.7	95.3	97.0	99.4
630	91.2	91.8	103.5	104.1	93.9	95.7	97.7
800	88.8	89.4	100.7	101.3	92.4	94.2	96.0
1000	86.2	86.8	97.7	98.3	90.9	92.7	94.0
1250	83.6	84.2	94.5	95.1	89.2	91.0	91.8
1600	80.8	81.4	91.1	91.7	87.4	89.2	89.4
2000	78.0	78.5	87.5	88.1	85.6	87.4	86.8
2500	74.6	75.4	83.6	84.2	83.5	85.2	83.9
3150	71.4	72.0	79.4	80.0	81.0	82.8	80.7
4000	67.6	68.1	74.9	75.4	78.3	79.7	76.9
5000	63.4	63.7	70.0	70.3	75.0	76.1	72.5
6300	53.7	59.0	64.7	64.9	71.3	72.1	67.9
8000	54.4	54.5	60.3	60.4	68.0	68.4	64.1
10000	49.7	49.7	55.4	55.4	64.3	64.3	59.9
12500	44.6	44.6	50.0	50.0	60.2	60.2	55.5
16000	39.0	39.0	43.4	43.4	55.6	55.6	49.9
20000	32.9	32.9	35.8	35.8	50.5	50.5	43.3
25000	26.1	26.1	26.8	26.8	44.8	44.8	35.3

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111A,E INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-510-106-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-111A,E INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = C.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-510-106-170276-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

USAF F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT F-111A AIRCRAFT USAF

NOISE PRODUCED ON THE GROUND BY

F-111A AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-510-001
AIRCRAFT CODE: 510
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
65% RPM	594-599
80% RPM	600-605
85% RPM	606-611
MIL PWR 95% RPM	612-617
AFTERBURNER, ZONE 3 95% RPM	618-623

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

29 APR 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 01
AIRCRAFT CODE 510
OPERATION CODE 02013
PROFILE VERSION A
29 APR 76
PAGE C1

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
IDLE, 65% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -4.3 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	64<	62	63	63	61	61	62	61	60	64	62	63	63	62	63	63	62	60<	40
63	64<	64	65	65	64	64	65	64	64	65	65	65	65	65	66	67	64	60<	40
80	64	70	72	71	71	73	72	71	71	70	73	73	73	73	74	74	72	60	40
100	63	70	71	71	70	73	70	69	70	73	74	75	74	74	74	76	72	61	41
125	58	65	66	66	63	63	63	64	67	69	69	70	69	68	67	69	67	57	37
160	61	67	67	65	61	61	65	66	68	70	69	70	74	71	70	70	69	58	38
200	62	69	67	63	61	62	64	62	63	67	68	68	70	69	68	66	70	56	36
250	65	69	67	65	62	62	64	63	64	65	66	65	67	67	67	66	70	57	37
315	65	71	68	67	63	63	63	60	60	62	62	62	66	68	67	71	70	59	39
400	66	70	67	68	64	61	64	59	58	57	60	62	64	65	65	70	68	58	38
500	66	68	69	71	66	63	65	60	62	60	61	63	63	64	65	67	69	59	39
630	67	68	71	70	66	62	64	60	60	58	59	60	61	64	63	66	66	56	36
800	74	76	81	77	73	71	70	68	64	63	64	62	63	66	64	66	66	57	37
1000	74	77	79	78	75	71	71	70	65	64	63	63	63	64	63	64	65	56	36
1250	74	77	77	77	75	72	71	68	64	61	62	62	63	63	62	63	62	54	34
1600	89	94	94	91	86	81	82	79	76	70	68	70	68	71	75	74	73	65	45
2000	88	93	93	91	86	82	82	79	77	74	73	74	72	74	76	77	76	67	47
2500	80	84	83	83	80	78	75	74	71	70	70	69	72	73	69	68	67	61	41
3150	80	84	83	82	81	77	75	73	71	70	70	69	69	68	67	66	66	60	40
4000	83	87	86	85	85	80	78	77	75	75	74	73	74	74	72	70	69	63	43
5000	79	82	81	79	79	75	73	72	68	69	67	68	71	70	68	65	64	55	35
6300	76	80	79	77	77	73	71	69	66	69	68	68	71	72	68	66	64	54	34
8000	72	75	75	73	73	69	68	65	63	67	65	65	67	67	64	62	61	50<	30
10000	68	71	70	68	69	65	64	60	60	65	62	63	65	64	61	59	59	46	26
OVERALL	93	98	97	96	92	88	88	85	83	83	82	83	83	84	83	84	83	74	54

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
IDLE, 65% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -4.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 01
AIRCRAFT CODE 510
OPERATION CODE 02013
PROFILE VERSION A
29 APR 76
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	107.7	112.4	111.8	110.4	107.6	103.9	102.7	100.6	98.7	98.7	97.7	97.5	98.4	98.8	98.2	98.3	97.3	88.6	67.9
250	105.5	110.2	109.6	108.1	105.3	101.5	100.5	98.5	96.4	96.3	95.3	95.2	96.1	96.5	95.9	96.1	95.1	86.3	65.6
315	103.2	107.9	107.3	105.8	102.8	99.1	98.1	96.1	93.9	93.9	92.9	92.7	93.6	94.0	93.6	93.8	92.8	84.0	63.2
400	100.8	105.5	104.9	103.5	100.3	96.5	95.8	93.5	91.4	91.3	90.3	90.2	91.1	91.5	91.2	91.4	90.4	81.6	60.7
500	98.4	103.1	102.5	101.0	97.6	94.0	93.3	91.0	88.7	88.6	87.6	87.5	88.4	88.8	88.7	88.9	87.9	79.2	58.1
630	95.8	100.5	99.9	98.5	95.0	91.4	90.7	88.4	86.1	85.7	84.8	84.6	85.5	86.0	86.1	86.4	85.4	76.6	55.3
800	93.1	97.8	97.2	95.8	92.2	88.7	88.0	85.7	83.4	82.6	81.7	81.7	82.4	83.2	83.4	83.7	82.7	73.9	52.3
1000	90.2	95.0	94.4	93.0	89.3	85.8	85.1	82.8	80.5	79.3	78.5	78.7	79.1	80.2	80.5	80.8	79.8	71.0	49.2
1250	87.2	92.0	91.4	89.9	86.2	82.6	82.0	79.7	77.4	75.9	75.3	75.5	75.8	76.9	77.4	77.8	76.8	67.9	45.3
1600	83.9	88.7	88.2	86.7	82.9	79.3	78.7	76.4	74.0	72.4	71.9	72.1	72.2	73.4	74.1	74.5	73.5	64.6	41.3
2000	80.4	85.3	84.9	83.2	79.3	75.7	75.2	72.8	70.4	68.7	68.2	68.4	68.3	69.7	70.4	71.0	69.9	60.9	35.7
2500	76.7	81.6	81.1	79.4	75.4	71.8	71.3	68.8	66.4	64.5	64.1	64.3	63.9	65.6	66.4	67.0	66.0	56.8	29.9
3150	72.7	77.6	77.2	75.2	71.1	67.4	66.9	64.4	61.9	59.9	59.4	59.7	59.2	61.1	61.9	62.7	61.7	52.3	22.4
4000	68.3	73.1	72.7	70.6	66.3	62.5	62.2	59.4	56.8	54.7	54.2	54.4	53.8	55.8	56.8	57.6	56.6	47.2	12.1
5000	63.3	68.2	67.9	65.7	61.3	56.9	57.1	54.0	51.4	48.5	47.9	48.2	47.7	49.8	51.0	51.8	51.0	40.2	1.9
6300	57.7	62.7	62.4	60.2	55.5	50.9	51.3	48.1	45.4	40.9	40.4	40.8	39.6	42.6	44.2	45.4	44.1	31.6	
8000	51.5	56.5	56.2	54.0	49.3	44.0	44.9	40.6	37.2	32.1	31.4	32.1	31.0	34.1	36.0	37.5	36.3	19.7	
10000	44.2	49.3	49.2	46.9	40.9	34.9	35.6	30.3	27.0	17.6	18.0	18.9	18.2	22.4	25.8	27.0	28.6	7.8	
12500	33.1	39.9	39.6	36.7	30.1	20.7	22.7	15.6	8.1	3.1	4.7	5.7	5.3	6.8	8.4	16.6	18.9		
16000	14.9	25.3	27.6	22.4	12.0	6.5	9.8	.9								6.3	7.7		
20000		10.7	11.3	8.2															
25000																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
IDLE, 65% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.308

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -4.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 01
AIRCRAFT CODE 510
OPERATION CODE 02013
PROFILE VERSION A
29 APR 76
PAGE E1

DISTANCE	ANGLE (DEGREES)																		
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	116.5	115.5	114.8	112.7	109.8	105.6	104.6	102.9	101.0	100.7	99.4	99.3	99.7	100.2	100.5	100.9	99.6	90.5	69.9
250	108.2	113.2	112.6	110.5	107.5	103.2	102.4	100.6	98.7	98.3	97.0	96.9	97.3	97.9	98.3	98.6	97.4	88.2	67.5
315	105.9	110.9	110.3	108.2	105.1	100.8	100.1	98.1	96.2	95.9	94.6	94.5	94.9	95.4	96.0	96.3	95.1	85.9	65.1
400	103.5	108.6	107.9	105.9	102.5	98.2	97.7	95.6	93.7	93.3	92.0	91.9	92.3	92.9	93.6	94.0	92.7	83.6	62.6
500	101.1	106.1	105.5	103.4	99.8	95.7	95.2	93.1	91.0	90.6	89.3	89.2	89.6	90.2	91.1	91.5	90.3	81.1	60.1
630	98.5	103.6	102.9	100.9	97.2	93.1	92.6	90.5	88.4	87.7	86.5	86.3	86.7	87.4	88.5	88.9	87.7	78.5	57.2
800	95.8	100.9	100.2	98.2	94.4	90.3	89.9	87.8	85.7	84.6	83.4	83.4	83.6	84.6	85.7	86.2	85.0	75.8	54.3
1000	92.9	98.0	97.4	95.4	91.6	87.5	87.0	84.9	82.8	81.2	80.2	80.4	80.4	81.5	82.8	83.4	82.1	72.9	51.1
1250	89.9	95.0	94.4	92.3	88.5	84.3	84.0	81.8	79.7	77.9	77.0	77.3	77.1	78.3	79.7	80.3	79.1	69.8	47.2
1600	86.6	91.7	91.2	89.1	85.1	81.0	80.7	78.5	76.3	74.4	73.6	73.9	73.5	74.8	76.4	77.1	75.8	66.5	43.2
2000	83.2	88.3	87.8	85.6	81.5	77.4	77.1	74.9	72.7	70.7	69.9	70.1	69.6	71.1	72.8	73.5	72.3	62.8	37.7
2500	79.4	84.7	84.1	81.8	77.6	73.5	73.2	70.9	68.7	66.5	65.8	66.0	65.2	67.0	68.8	69.6	68.4	58.7	31.9
3150	75.4	80.7	80.2	77.6	73.3	69.0	68.9	66.5	64.2	61.9	61.1	61.4	60.5	62.5	64.3	65.2	64.0	54.2	24.3
4000	70.4	75.6	75.1	72.5	68.0	63.8	63.8	61.1	58.7	56.3	55.5	55.8	54.8	56.9	58.7	59.6	58.5	48.7	13.7
5000	64.9	70.1	69.7	67.1	62.6	57.9	58.3	55.2	52.8	49.7	49.0	49.2	48.4	50.6	52.4	53.3	52.4	41.4	3.0
6300	58.8	63.9	63.6	61.2	56.4	51.6	52.1	48.9	46.3	41.7	41.1	41.5	40.1	43.1	45.2	46.4	45.1	32.4	
8000	52.0	57.1	56.8	54.5	49.7	44.4	45.3	41.0	37.7	32.5	31.7	32.5	31.3	34.4	36.5	38.0	36.8	20.1	
10000	44.2	49.3	49.2	46.9	40.9	34.9	35.6	30.3	27.0	17.6	18.0	18.9	18.2	22.4	25.8	27.0	28.6	7.8	
12500	33.1	39.9	39.6	36.7	30.1	20.7	22.7	15.6	8.1	3.1	4.7	5.7	5.3	6.8	8.4	16.6	18.9		
16000	14.9	25.3	27.6	22.4	12.0	6.5	9.8	.9								6.3	7.7		
20000		10.7	11.3	8.2															
25000																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
IDLE, 65% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -4.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 01
AIRCRAFT CODE 510
OPERATION CODE 02013
PROFILE VERSION A
29 APR 76
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	96.3	101.2	100.5	98.7	95.2	91.1	90.3	88.1	85.5	83.9	82.9	82.8	83.5	84.5	84.3	84.0	83.1	75.1	55.1
250	94.1	99.0	98.3	96.5	93.0	88.9	88.1	85.9	83.3	81.6	80.6	80.5	81.1	82.2	82.1	81.8	80.9	72.9	52.9
315	91.8	96.8	96.1	94.3	90.7	86.6	85.9	83.6	81.0	79.2	78.2	78.1	78.7	79.8	79.8	79.6	78.7	70.7	50.7
400	89.5	94.5	93.8	92.0	88.3	84.2	83.5	81.2	78.6	76.8	75.8	75.7	76.2	77.3	77.5	77.3	76.4	68.4	48.4
500	87.2	92.1	91.5	89.6	85.9	81.8	81.1	78.8	76.2	74.2	73.3	73.2	73.6	74.8	75.0	75.0	74.1	66.0	46.0
630	84.7	89.7	89.1	87.2	83.5	79.3	78.7	76.3	73.7	71.5	70.7	70.6	70.9	72.2	72.5	72.5	71.7	63.5	43.5
800	82.2	87.2	86.6	84.6	80.7	76.6	76.1	73.7	71.1	68.8	67.9	67.8	68.1	69.4	70.0	70.0	69.2	61.0	41.0
1000	79.5	84.6	84.0	82.0	77.9	73.9	73.4	70.9	68.3	65.9	65.0	65.0	65.1	66.6	67.2	67.4	66.5	58.3	38.3
1250	76.7	81.8	81.2	79.2	75.0	70.9	70.6	68.1	65.5	62.8	62.0	62.0	62.0	63.6	64.4	64.6	63.8	55.5	35.5
1600	73.8	78.8	78.3	76.2	72.0	67.9	67.6	65.0	62.4	59.5	58.8	58.8	58.7	60.4	61.4	61.7	60.9	52.5	32.5
2000	70.6	75.7	75.2	73.1	68.7	64.6	64.4	61.8	59.2	56.1	55.4	55.5	55.3	57.1	58.2	58.6	57.9	49.4	29.4
2500	67.2	72.3	71.8	69.7	65.2	61.1	61.0	58.3	55.7	52.5	51.8	51.9	51.6	53.5	54.7	55.2	54.5	46.8	26.0
3150	63.4	68.5	68.1	65.9	61.4	57.3	57.3	54.6	51.9	48.5	47.9	48.1	47.7	49.7	51.0	51.5	50.9	42.3	22.3
4000	59.3	64.4	64.0	61.8	57.3	53.1	53.2	50.5	47.7	44.3	43.7	43.9	43.5	45.5	46.8	47.4	46.9	38.2	18.2
5000	54.7	59.7	59.5	57.2	52.7	48.5	48.7	45.9	43.1	39.7	39.1	39.3	38.9	40.9	42.2	42.8	42.4	33.6	13.6
6300	49.5	54.5	54.3	52.0	47.5	43.4	43.6	40.8	38.0	34.6	34.1	34.3	33.9	35.9	37.1	37.7	37.5	28.6	8.6
8000	43.7	48.5	48.6	46.3	41.9	37.9	38.1	35.3	32.5	29.3	29.0	29.1	29.1	31.0	31.8	32.7	32.7	23.6	3.6
10000	37.2	41.8	42.2	39.9	35.7	31.8	32.0	29.3	26.5	23.7	23.6	23.8	24.0	25.9	26.2	27.6	27.8	18.4	
12500	30.1	34.2	35.3	33.0	28.9	25.4	25.5	22.9	20.2	17.9	18.2	18.5	18.9	20.6	20.6	22.4	22.8	13.2	
16000	22.5	26.8	28.0	25.8	21.8	18.5	18.9	16.1	13.8	12.1	12.6	13.1	13.6	15.2	15.1	17.2	17.7	7.8	
20000	14.8	17.7	20.3	18.3	14.4	11.4	11.8	9.0	7.4	6.2	6.9	7.6	8.2	9.6	9.6	11.8	12.3	2.1	
25000	6.9	9.6	12.2	10.6	6.6	3.9	4.7	1.7	1.0	.5	1.3	2.2	2.9	3.9	4.0	6.2	6.4		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
IDLE, 65% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.308

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -4.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 01
AIRCRAFT CODE 510
OPERATION CODE 02013
PROFILE VERSION A
29 APR 76
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	99.0	104.2	103.5	101.1	97.4	92.8	92.2	90.2	87.8	35.9	84.6	84.5	84.7	85.9	86.7	86.6	85.4	77.0	57.0
250	96.8	102.0	101.3	98.9	95.2	90.6	90.0	87.9	85.6	83.6	82.3	82.2	82.4	83.6	84.4	84.4	83.3	74.8	54.8
315	94.6	99.8	99.1	96.6	92.9	88.3	87.8	85.7	83.3	81.2	79.9	79.9	80.0	81.2	82.2	82.2	81.0	72.6	52.6
400	92.3	97.5	96.8	94.4	90.5	85.9	85.4	83.3	80.9	78.7	77.5	77.4	77.5	78.7	79.8	79.9	78.7	70.3	50.3
500	89.9	95.2	94.5	92.0	88.1	83.5	83.1	80.9	78.5	76.2	75.0	74.9	74.9	76.2	77.4	77.5	76.4	67.9	47.9
630	87.4	92.8	92.1	89.6	85.5	80.9	80.6	78.4	76.0	73.5	72.4	72.3	72.2	73.6	74.9	75.1	74.0	65.5	45.5
800	84.9	90.2	89.6	87.0	82.9	78.3	78.0	75.8	73.4	70.7	69.6	69.6	69.4	70.8	72.3	72.6	71.5	62.9	42.9
1000	82.2	87.6	87.0	84.4	80.2	75.5	75.3	73.0	70.6	67.8	66.7	66.7	66.4	68.0	69.6	70.0	68.9	60.2	40.2
1250	79.4	84.8	84.2	81.6	77.2	72.6	72.5	70.2	67.8	64.8	63.7	63.7	63.3	65.0	66.7	67.2	66.1	57.4	37.4
1600	76.5	81.9	81.3	78.6	74.2	69.6	69.5	67.1	64.7	61.5	60.5	60.6	60.0	61.8	63.7	64.3	63.2	54.5	34.5
2000	73.3	78.7	78.2	75.5	70.9	66.3	66.4	63.9	61.4	58.1	57.1	57.2	56.6	58.5	60.5	61.2	60.2	51.3	31.3
2500	69.9	75.3	74.8	72.1	67.4	62.8	62.9	60.4	58.0	54.4	53.5	53.7	52.9	54.9	57.1	57.8	56.8	47.9	27.9
3150	66.2	71.6	71.1	68.3	63.6	59.0	59.2	56.6	54.2	50.5	49.6	49.8	49.0	51.1	53.3	54.1	53.2	44.2	24.2
4000	61.5	66.8	66.5	63.7	59.0	54.5	54.8	52.1	49.6	45.9	45.0	45.3	44.5	46.6	48.7	49.4	48.7	39.7	19.7
5000	56.4	61.6	61.3	58.7	54.0	49.6	49.8	47.2	44.5	40.8	40.1	40.3	39.6	41.8	43.6	44.3	43.8	34.8	14.8
6300	50.6	55.7	55.5	53.0	48.4	44.1	44.4	41.7	38.9	35.4	34.7	35.0	34.4	36.5	38.0	38.8	38.4	29.4	9.4
8000	44.3	49.1	49.2	46.8	42.3	38.2	38.4	35.8	32.9	29.6	29.3	29.5	29.3	31.3	32.2	33.2	33.2	24.0	4.0
10000	37.2	41.8	42.2	39.9	35.7	31.8	32.0	29.3	26.5	23.7	23.6	23.8	24.0	25.9	26.2	27.6	27.8	18.4	
12500	30.1	34.2	35.3	33.0	28.9	25.4	25.5	22.9	20.2	17.9	18.2	18.5	18.9	20.6	20.6	22.4	22.8	13.2	
16000	22.5	26.0	28.0	25.8	21.8	18.5	18.8	16.1	13.8	12.1	12.6	13.1	13.6	15.2	15.1	17.2	17.7	7.8	
20000	14.8	17.7	20.3	18.3	14.4	11.4	11.8	9.0	7.4	6.2	6.9	7.6	8.2	9.6	9.6	11.8	12.3	2.1	
25000	6.9	9.6	12.2	10.6	6.6	3.9	4.7	1.7	1.0	.5	1.3	2.2	2.9	3.9	4.0	6.2	6.4		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

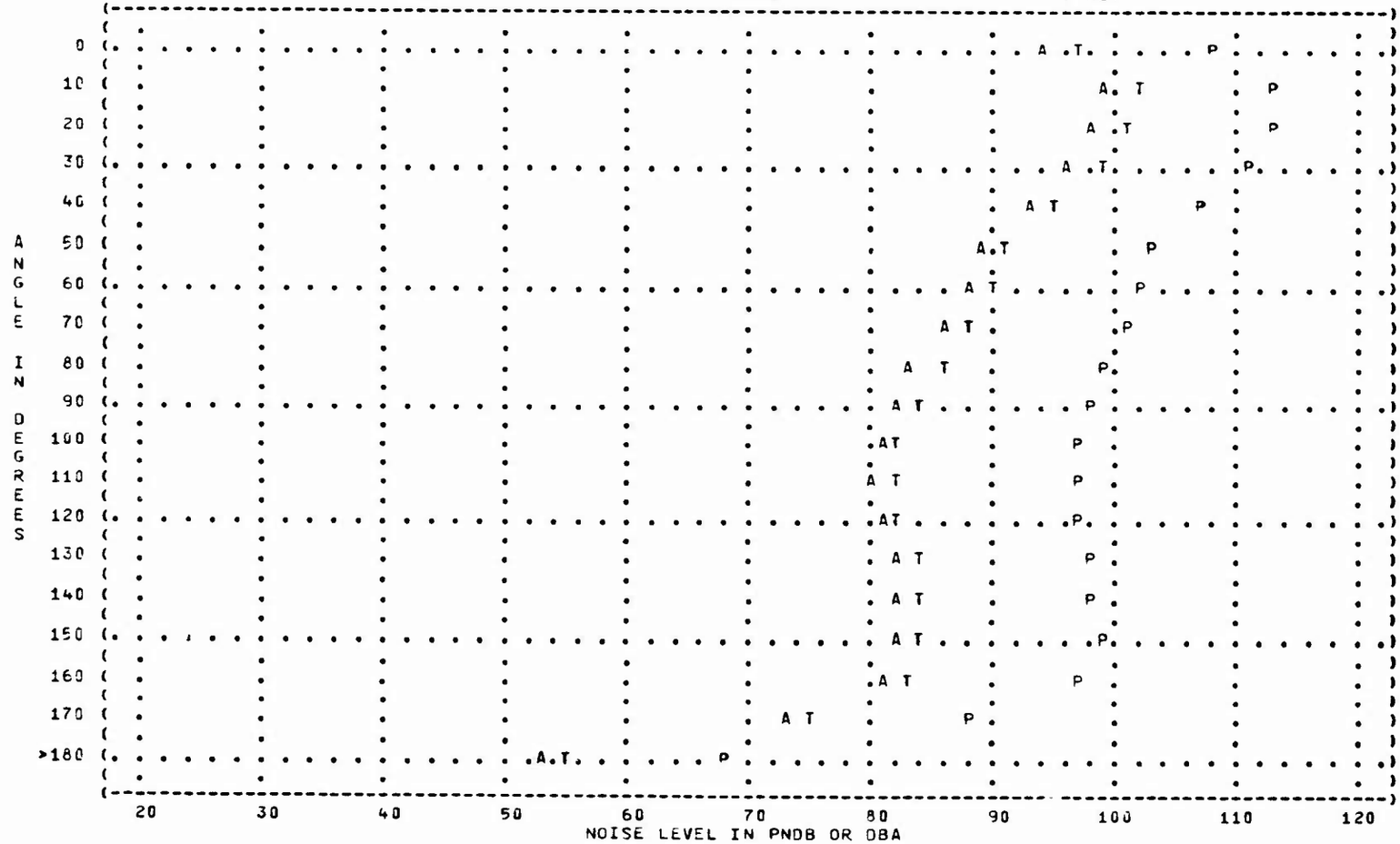
NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
IDLE, 65% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.303

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -4.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 01
AIRCRAFT CODE 510
OPERATION CODE 02013
PROFILE VERSION A
29 APR 76
PAGE J1

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 02
AIRCRAFT CODE 510
OPERATION CODE 02019
PROFILE VERSION A
29 APR 76
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NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
80% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -4.3 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	72	71	73	71	73	74	74	74	75	76	78	80	82	87	91	92	90	80	70
63	72	74	74	75	75	74	76	77	78	78	79	81	84	90	95	96	92	82	72
80	75	76	78	79	79	78	79	79	82	80	81	84	86	92	96	98	93	83	73
100	76	78	80	83	83	81	82	81	83	84	86	87	88	94	99	102	99	89	79
125	78	79	81	81	80	78	80	82	83	84	85	87	88	92	96	102	98	88	78
160	81	81	81	80	79	79	81	83	85	85	86	88	90	93	95	100	99	89	79
200	80	81	81	79	79	79	79	80	82	82	84	86	88	91	94	94	95	85	75
250	80	81	81	81	79	80	82	83	83	82	82	82	84	87	92	90	91	81	71
315	79	80	80	79	78	78	78	78	79	76	78	79	82	86	88	89	88	78	68
400	79	79	80	80	76	75	74	74	75	73	74	77	79	83	85	86	84	74	64
500	79	78	80	79	73	74	74	75	75	73	73	78	77	81	83	84	82	72	62
630	79	77	80	79	75	76	76	75	77	75	75	78	77	81	81	82	80	70	60
800	78	77	80	78	74	76	74	75	75	75	74	77	76	80	79	80	77	67	57
1000	79	80	81	78	77	76	76	76	76	74	74	77	75	79	78	78	74	64	54
1250	85	84	85	82	81	80	78	78	76	74	75	75	75	77	76	76	73	63	53
1600	88	87	87	86	84	82	81	80	77	74	75	76	75	77	76	76	72	62	52
2000	87	85	86	86	83	82	80	79	76	75	75	76	75	77	76	75	72	62	52
2500	95	93	93	92	89	87	85	85	82	79	77	77	75	77	76	76	74	64	54
3150	98	96	96	95	94	92	91	90	88	85	84	83	80	81	79	80	79	69	59
4000	91	89	90	88	88	86	85	85	83	83	84	85	82	82	79	78	76	66	56
5000	91	88	89	87	87	85	83	83	79	77	77	76	75	75	74	73	72	62	52
6300	90	88	88	87	86	84	83	84	80	79	77	77	75	75	74	73	72	62	52
8000	85	83	83	82	81	79	78	78	75	76	76	75	74	73	72	71	70	60	50
10000	81	80	79	79	78	76	75	74	71	74	74	72	69	70	69	68	67	57	47
OVERALL	102	100	101	99	98	96	95	96	94	94	95	96	97	101	105	108	105	95	85

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
80% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -4.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 02
AIRCRAFT CODE 510
OPERATION CODE 02019
PROFILE VERSION A
29 APR 76
PAGE 02

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	119.3	118.0	118.2	117.0	116.0	114.0	112.9	112.8	110.7	108.8	108.9	109.4	108.3	110.0	110.2	112.4	110.3	100.2	90.0
250	116.9	115.7	115.9	114.7	113.7	111.7	110.6	110.5	108.4	106.5	106.6	107.1	106.0	107.8	108.1	110.3	108.2	98.1	87.8
315	114.6	113.3	113.5	112.4	111.3	109.3	108.2	108.1	106.1	104.1	104.3	104.7	103.7	105.4	105.9	108.1	106.1	95.9	85.6
400	112.1	110.8	111.0	109.9	108.8	106.9	105.8	105.7	103.6	101.7	101.8	102.2	101.2	103.0	103.7	105.9	103.8	93.6	83.2
500	109.5	108.2	108.4	107.3	106.2	104.3	103.2	103.1	101.0	99.1	99.3	99.6	98.6	100.5	101.4	103.6	101.4	91.1	80.6
630	106.7	105.5	105.7	104.6	103.5	101.5	100.4	100.3	98.3	96.4	96.5	96.8	95.8	97.7	99.1	101.1	98.8	88.6	77.8
800	103.8	102.6	102.8	101.7	100.5	98.6	97.5	97.4	95.4	93.4	93.6	93.8	92.9	94.9	96.5	98.6	96.1	85.8	74.9
1000	100.7	99.4	99.7	98.6	97.4	95.5	94.4	94.3	92.3	90.3	90.5	90.7	89.7	91.9	93.6	95.7	93.2	82.7	71.8
1250	97.3	96.0	96.3	95.2	94.0	92.1	91.0	90.9	88.9	86.9	87.1	87.4	86.1	88.6	90.4	92.6	90.1	79.4	68.4
1600	93.6	92.3	92.6	91.5	90.2	88.4	87.3	87.2	85.2	83.2	83.4	83.7	82.5	85.0	86.9	89.1	86.6	75.7	64.7
2000	89.5	88.2	88.6	87.4	86.1	84.3	83.2	83.1	81.2	79.1	79.3	79.7	78.5	81.1	82.8	85.3	82.7	71.7	60.5
2500	84.9	83.7	84.0	82.9	81.6	79.7	78.6	78.5	76.7	74.6	74.7	75.2	74.1	76.8	78.3	80.6	78.2	67.2	55.7
3150	79.7	78.5	78.9	77.8	76.3	74.6	73.5	73.3	71.6	69.5	69.7	70.2	69.1	72.4	73.7	75.5	73.2	62.1	50.0
4000	74.3	73.0	73.4	72.4	70.4	68.7	67.6	67.5	65.7	63.5	63.8	64.4	64.0	67.7	68.8	70.1	67.9	56.8	44.1
5000	68.3	67.0	67.4	66.4	64.0	62.6	61.3	61.2	59.2	57.0	57.3	59.2	58.8	62.6	63.7	65.0	62.7	51.0	37.9
6300	61.6	60.2	60.7	59.7	57.2	56.1	55.0	54.5	52.9	50.8	51.0	53.5	53.1	57.1	58.2	59.7	57.2	44.9	28.4
8000	54.9	54.1	54.7	53.4	50.7	49.8	48.5	47.9	47.2	45.4	45.5	48.5	48.0	52.6	54.0	55.6	53.1	39.7	20.1
10000	47.6	46.6	47.3	45.7	42.5	41.6	40.7	41.1	41.0	39.1	39.4	42.9	42.5	47.5	49.3	51.1	48.5	34.6	10.0
12500	38.8	38.1	39.9	38.4	34.0	34.1	33.2	33.4	34.0	31.7	32.1	36.2	36.3	42.1	44.1	46.1	43.4	28.3	
16000	30.8	30.1	32.3	30.6	23.7	24.3	22.5	23.7	25.4	20.8	20.2	29.1	29.5	35.8	38.5	40.6	37.7	17.3	
20000	18.6	17.4	21.7	18.9	13.3	10.2	9.7	11.7	11.1	9.9	8.3	16.9	17.3	25.7	32.1	34.9	31.5	6.2	
25000	6.5	4.7	7.6	7.1	2.9							4.7	5.2	12.2	21.9	27.0	24.5		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG, TF30-P-3
GROUND RUNUP

OPERATION:
80% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -4.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 02
AIRCRAFT CODE 510
OPERATION CODE 02019
PROFILE VERSION A
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PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	121.3	120.0	120.0	118.9	117.9	115.8	114.7	114.5	112.5	110.1	110.1	111.0	109.9	111.4	110.2	113.5	111.6	101.5	91.2
250	119.0	117.7	117.7	116.6	115.6	113.5	112.5	112.2	110.2	107.8	107.8	108.7	107.6	109.1	108.1	111.4	109.5	99.3	89.1
315	116.6	115.3	115.4	114.2	113.2	111.1	110.1	109.9	107.8	105.4	105.5	106.3	105.2	106.8	105.9	109.3	107.3	97.1	86.8
400	114.1	112.8	112.9	111.7	110.8	108.6	107.6	107.4	105.4	103.0	103.0	103.8	102.7	104.4	103.7	107.1	105.0	94.8	84.4
500	111.5	110.2	110.3	109.2	108.2	106.0	105.0	104.8	102.8	100.4	100.5	101.2	100.1	101.8	101.4	104.8	102.6	92.4	81.8
630	108.8	107.5	107.6	106.4	105.4	103.3	102.3	102.1	100.1	97.7	97.8	98.4	97.4	99.1	99.1	102.3	100.1	89.8	79.0
800	105.8	104.6	104.7	103.5	102.5	100.4	99.4	99.1	97.2	94.7	94.8	95.4	94.4	96.2	96.5	99.7	97.3	87.0	76.1
1000	102.7	101.4	101.6	100.4	99.3	97.2	96.3	96.0	94.1	91.6	91.7	92.3	91.2	93.3	93.6	96.9	94.5	84.0	73.0
1250	99.3	98.0	98.2	97.0	95.9	93.8	92.9	92.6	90.7	88.2	88.3	88.9	87.6	90.0	90.4	93.7	91.3	80.6	69.6
1600	95.6	94.3	94.5	93.3	92.2	90.1	89.1	88.9	87.0	84.5	84.6	85.2	84.0	86.4	86.9	90.3	87.8	77.0	65.9
2000	91.5	90.2	90.4	89.3	88.1	86.0	85.1	84.8	83.0	80.4	80.5	81.3	80.0	82.4	82.8	86.4	83.9	73.0	61.8
2500	86.9	85.7	85.9	84.7	83.5	81.5	80.5	80.2	78.4	75.8	76.0	76.8	75.6	78.1	78.3	81.8	79.4	68.5	56.9
3150	81.7	80.5	80.8	79.6	78.3	76.3	75.3	75.1	73.3	70.8	70.9	71.8	70.6	73.8	73.7	76.7	74.4	63.3	51.3
4000	75.9	74.5	74.8	73.9	72.0	70.1	69.1	68.8	67.1	64.5	64.7	65.7	65.3	68.8	68.8	71.1	68.9	57.8	45.1
5000	69.5	68.2	68.5	67.5	65.1	63.6	62.4	62.2	60.3	57.8	58.0	60.1	59.7	63.4	63.7	65.7	63.5	51.7	38.6
6300	62.4	61.0	61.5	60.5	58.0	56.8	55.8	55.1	53.6	51.3	51.5	54.1	53.7	57.6	58.2	60.1	57.7	45.4	28.9
8000	55.3	54.5	55.1	53.8	51.1	50.1	48.9	48.2	47.5	45.7	45.7	48.8	48.3	52.9	54.0	55.9	53.4	40.0	20.3
10000	47.6	46.6	47.3	45.7	42.5	41.6	40.7	41.1	41.0	39.1	39.4	42.9	42.5	47.5	49.3	51.1	48.5	34.6	10.0
12500	38.8	38.1	39.9	38.4	34.0	34.1	33.2	33.4	34.0	31.7	32.1	36.2	36.3	42.1	44.1	46.1	43.4	28.3	
16000	30.8	30.1	32.3	30.6	23.7	24.3	22.5	23.7	25.4	20.8	20.2	29.1	29.5	35.8	38.5	40.6	37.7	17.3	
20000	18.6	17.4	21.7	18.9	13.3	10.2	9.7	11.7	11.1	9.9	8.3	16.9	17.3	28.7	32.1	34.9	31.5	6.2	
25000	6.5	4.7	7.6	7.1	2.9							4.7	5.2	12.2	21.9	27.0	24.5		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
80% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.308

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -4.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 02
AIRCRAFT CODE 510
OPERATION CODE 02019
PROFILE VERSION A
29 APR 76
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	104.8	103.3	103.4	102.2	101.0	99.0	97.5	97.4	94.7	92.9	93.1	93.3	91.9	93.6	94.4	96.0	94.4	84.4	74.4
250	102.5	101.0	101.1	99.9	98.7	96.6	95.2	95.1	92.4	90.6	90.8	91.0	89.6	91.6	92.3	94.0	92.3	82.3	72.3
315	100.1	98.6	98.7	97.6	96.3	94.3	92.8	92.7	90.1	88.2	88.4	88.7	87.3	89.4	90.2	91.9	90.3	80.3	70.3
400	97.7	96.1	96.3	95.1	93.9	91.8	90.4	90.2	87.6	85.7	86.0	86.2	85.0	87.2	88.0	89.7	88.1	78.1	68.1
500	95.1	93.6	93.7	92.6	91.3	89.2	87.8	87.6	85.1	83.2	83.4	83.7	82.5	84.8	85.7	87.5	85.8	75.8	65.8
630	92.4	90.9	91.1	89.9	88.6	86.5	85.1	84.9	82.4	80.5	80.7	81.1	80.0	82.4	83.3	85.1	83.4	73.4	63.4
800	89.6	88.1	88.2	87.1	85.7	83.7	82.3	82.1	79.6	77.8	77.8	78.3	77.3	79.8	80.8	82.6	80.8	70.8	60.8
1000	86.6	85.1	85.3	84.1	82.7	80.7	79.3	79.0	76.6	74.6	74.8	75.5	74.5	77.2	78.2	80.0	78.2	68.2	58.2
1250	83.3	81.9	82.1	81.0	79.4	77.5	76.1	75.8	73.5	71.5	71.6	72.4	71.6	74.4	75.4	77.1	75.3	65.3	55.3
1600	79.9	78.4	78.7	77.6	75.9	74.0	72.6	72.4	70.2	68.1	68.3	69.3	68.5	71.5	72.4	74.1	72.2	62.2	52.2
2000	76.1	74.7	75.0	73.9	72.1	70.3	69.0	68.7	66.6	64.6	64.8	66.0	65.3	68.5	69.4	70.9	69.0	59.0	49.0
2500	72.0	70.7	71.1	69.9	68.0	66.4	65.0	64.8	62.8	61.0	61.0	62.6	61.9	65.2	65.9	67.3	65.3	55.3	45.3
3150	67.6	66.4	66.8	65.6	63.6	62.2	60.8	60.6	58.9	57.1	57.1	59.0	58.3	61.7	62.2	63.5	61.4	51.4	41.4
4000	62.9	61.7	62.3	61.0	58.8	57.6	56.4	56.1	54.7	53.0	53.0	55.1	54.4	57.8	58.1	59.3	57.1	47.1	37.1
5000	57.7	56.8	57.5	56.3	53.8	52.8	51.6	51.4	50.2	48.6	48.6	50.9	50.2	53.6	53.8	54.9	52.7	42.7	32.7
6300	52.3	51.5	52.4	50.8	48.6	47.8	46.6	46.5	45.5	44.0	44.0	46.5	45.7	49.2	49.3	50.4	48.1	38.1	28.1
8000	46.9	46.3	47.3	45.6	43.3	42.8	41.8	41.8	41.1	39.8	39.8	42.4	41.7	45.4	45.7	47.0	44.7	34.7	24.7
10000	41.3	40.8	42.1	40.4	37.8	37.6	36.7	36.9	36.6	35.3	35.3	38.0	37.5	41.3	41.9	43.3	41.2	31.2	21.2
12500	35.5	35.0	36.6	34.9	32.1	32.1	31.4	31.7	31.7	30.5	30.5	33.4	33.1	36.9	37.8	39.5	37.5	27.5	17.5
16000	29.5	29.1	30.8	29.3	26.2	26.4	25.9	26.3	26.6	25.4	25.5	28.4	28.4	32.2	33.7	35.7	33.6	23.6	13.6
20000	23.4	23.0	24.7	23.5	20.1	20.4	20.2	20.7	21.2	20.0	20.4	23.1	23.5	27.4	29.4	31.8	29.7	19.7	9.7
25000	17.0	16.7	18.3	17.3	14.0	14.3	14.3	14.9	15.6	14.6	15.3	17.7	18.7	22.6	25.2	27.9	25.7	15.7	5.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 02
AIRCRAFT CODE 510
OPERATION CODE 02019
PROFILE VERSION A
29 APR 76
PAGE G2

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
80% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -4.3 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	106.8	105.3	105.2	104.1	103.0	100.7	99.4	99.1	96.5	94.2	94.4	94.8	93.4	95.2	94.4	97.2	95.7	85.7	75.7
250	104.5	103.0	102.9	101.8	100.7	98.4	97.1	96.8	94.2	91.9	92.0	92.6	91.1	93.0	92.3	95.1	93.6	83.6	73.6
315	102.2	100.6	100.6	99.4	98.3	96.0	94.7	94.4	91.3	89.5	89.6	90.2	88.8	90.8	90.2	93.0	91.5	81.5	71.5
400	99.7	98.1	98.1	97.0	95.8	93.6	92.2	91.9	89.4	87.0	87.2	87.8	86.5	88.5	88.0	90.9	89.3	79.3	69.3
500	97.1	95.6	95.6	94.4	93.2	91.0	89.7	89.4	86.9	84.5	84.6	85.3	84.0	86.2	85.7	88.6	87.0	77.0	67.0
630	94.4	92.9	92.9	91.8	90.5	88.3	87.0	86.6	84.2	81.8	81.9	82.5	81.5	83.8	83.3	86.3	84.6	74.6	64.6
800	91.6	90.1	90.1	89.0	87.7	85.5	84.1	83.8	81.4	78.9	79.1	79.9	79.8	81.2	80.8	83.8	82.1	72.1	62.1
1000	88.6	87.1	87.1	86.0	84.6	82.4	81.1	80.8	78.4	75.9	76.1	77.0	76.0	78.6	78.2	81.1	79.4	69.4	59.4
1250	85.4	83.9	83.9	82.8	81.3	79.2	77.9	77.5	75.3	72.8	72.9	74.0	73.1	75.8	75.4	78.3	76.5	66.5	56.5
1600	81.9	80.4	80.5	79.4	77.8	75.8	74.5	74.1	71.9	69.4	69.5	70.3	70.0	72.9	72.4	75.2	73.4	63.4	53.4
2000	78.1	76.7	76.9	75.7	74.0	72.1	70.8	70.4	68.4	65.9	66.0	67.5	66.9	69.8	69.4	72.0	70.2	60.2	50.2
2500	74.1	72.7	72.9	71.8	69.9	68.1	66.9	66.5	64.6	62.2	62.2	64.1	63.4	66.6	65.9	68.5	66.6	56.6	46.6
3150	69.7	68.4	68.7	67.5	65.5	63.9	62.7	62.3	60.6	58.4	58.3	60.5	59.8	63.0	62.2	64.7	62.6	52.6	42.6
4000	64.5	63.3	63.8	62.5	60.4	59.1	57.9	57.5	56.1	54.0	54.0	56.4	55.6	58.9	58.1	60.2	58.1	48.1	38.1
5000	59.0	58.0	58.6	57.1	55.0	53.9	52.7	52.5	51.2	49.4	49.4	51.8	51.1	54.4	53.8	55.6	53.4	43.4	33.4
6300	53.1	52.3	53.1	51.5	49.4	48.5	47.4	47.2	46.2	44.0	44.5	47.1	46.3	49.7	49.3	50.9	48.6	38.6	28.6
8000	47.3	46.7	47.7	46.0	43.7	43.1	42.1	42.1	41.5	40.0	40.0	42.7	42.0	45.6	45.7	47.2	45.0	35.0	25.0
10000	41.3	40.8	42.1	40.4	37.8	37.6	36.7	36.9	36.6	35.3	35.3	38.0	37.5	41.3	41.9	43.3	41.2	31.2	21.2
12500	35.5	35.0	36.6	34.9	32.1	32.1	31.4	31.7	31.7	30.5	30.5	33.4	33.1	36.9	37.8	39.5	37.5	27.5	17.5
16000	29.5	29.1	30.6	29.3	26.2	26.4	25.9	26.3	26.6	25.4	25.5	28.4	28.4	32.2	33.7	35.7	33.6	23.6	13.6
20000	23.4	23.0	24.7	23.5	20.1	20.4	20.2	20.7	21.2	20.0	20.4	23.1	23.5	27.4	29.4	31.8	29.7	19.7	9.7
25000	17.0	16.7	18.3	17.3	14.0	14.3	14.3	14.9	15.6	14.6	15.3	17.7	18.7	22.6	25.2	27.9	25.7	15.7	5.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

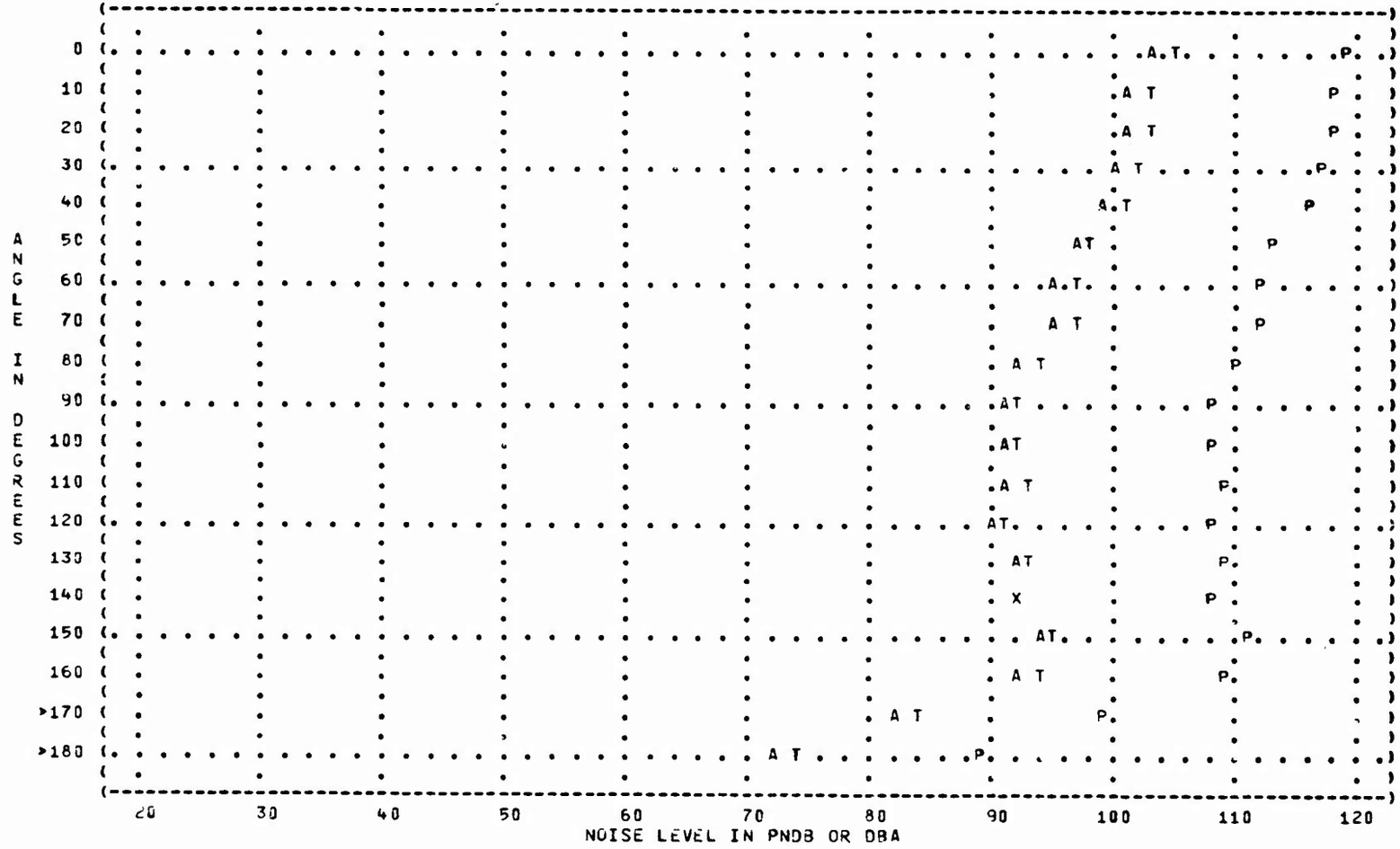
NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
80% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -4.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 02
AIRCRAFT CODE 510
OPERATION CODE 02019
PROFILE VERSION A
29 APR 76
PAGE J2

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 03
AIRCRAFT CODE 510
OPERATION CODE 01018
PROFILE VERSION A
29 APR 76
PAGE C3

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
85% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	73	76	75	76	76	77	78	78	80	80	83	84	89	93	99	101	100	90	80
63	76	78	78	79	79	79	80	80	80	83	84	87	92	97	103	105	101	91	81
80	77	80	82	81	82	82	84	82	83	84	86	89	94	99	106	108	103	93	83
100	80	83	85	84	84	85	86	85	86	88	90	94	97	102	109	112	106	96	86
125	81	84	85	85	84	84	84	84	87	88	90	94	97	102	106	112	108	98	88
160	83	87	87	85	84	84	85	86	89	91	93	96	101	105	106	114	111	101	91
200	84	87	85	85	83	84	85	85	86	88	92	94	99	104	108	109	108	98	88
250	84	86	86	87	85	86	88	86	86	86	89	92	95	100	106	100	104	94	84
315	83	86	87	87	84	86	87	84	84	84	87	91	94	98	101	104	99	89	79
400	84	86	87	86	83	82	82	79	79	83	84	89	92	95	97	102	95	85	75
500	84	84	85	85	82	81	81	79	81	83	82	89	91	92	96	98	91	81	71
630	84	83	86	85	81	81	81	80	81	84	84	91	91	91	93	95	88	78	68
800	83	84	85	84	81	82	81	80	82	85	84	91	90	91	91	93	86	76	66
1000	84	85	85	84	82	82	81	80	81	84	85	89	89	89	90	91	84	74	64
1250	84	86	85	83	83	82	81	80	80	83	84	88	88	88	88	89	82	72	62
1600	91	90	88	87	85	85	83	81	81	84	85	88	88	87	87	88	81	71	61
2000	96	91	87	86	84	84	82	82	82	84	85	88	87	86	86	86	80	70	60
2500	91	91	89	88	86	85	83	83	82	83	84	87	85	83	84	82	77	67	57
3150	96	98	97	97	94	93	90	90	88	87	87	89	87	84	86	85	82	72	62
4000	94	94	95	94	93	93	90	92	90	88	89	90	88	85	86	85	82	72	62
5000	88	89	89	88	87	87	84	86	83	84	84	87	84	82	82	80	76	66	56
6300	87	86	87	86	85	85	82	84	81	81	81	84	82	79	81	79	74	64	54
8000	83	84	83	82	81	81	79	83	80	80	80	82	80	78	78	77	73	63	53
10000	79	80	80	79	78	77	74	79	76	77	76	79	77	75	75	74	69	59	49
OVERALL	103	103	102	102	100	99	98	98	98	99	100	104	107	111	115	119	115	105	95

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
85% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 03
AIRCRAFT CODE 510
OPERATION CODE 01018
PROFILE VERSION A
29 APR 76
PAGE D3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	119.2	120.1	119.6	119.1	116.9	116.2	114.1	115.4	113.8	113.9	114.5	117.3	116.9	118.4	121.4	124.1	120.1	110.0	99.9
250	116.9	117.8	117.3	116.8	114.6	113.9	111.8	113.0	111.5	111.6	112.2	115.0	114.7	116.3	119.3	122.0	118.0	108.0	97.8
315	114.6	115.5	114.9	114.4	112.3	111.6	109.5	110.6	109.1	109.2	109.8	112.7	112.4	114.1	117.1	119.9	115.9	105.8	95.6
400	112.1	113.0	112.5	112.0	109.8	109.1	107.0	108.1	106.6	106.7	107.4	110.2	110.0	111.9	114.9	117.7	113.7	103.6	93.4
500	109.6	110.5	109.9	109.4	107.3	106.5	104.5	105.4	103.9	104.1	104.8	107.7	107.4	109.5	112.5	115.4	111.3	101.2	91.0
630	106.9	107.8	107.2	106.7	104.5	103.8	101.8	102.5	101.1	101.3	102.0	104.9	104.8	107.0	110.0	112.9	108.8	98.7	88.4
800	104.0	104.9	104.3	103.8	101.6	100.9	98.9	99.5	98.1	98.3	99.1	102.0	102.1	104.3	107.4	110.3	106.2	96.0	85.7
1000	100.9	101.8	101.2	100.7	98.5	97.8	95.8	96.1	94.8	95.3	95.9	99.0	99.2	101.5	104.6	107.5	103.4	93.1	82.7
1250	97.6	98.4	97.9	97.4	95.1	94.4	92.5	92.6	91.3	91.9	92.6	95.7	96.0	98.4	101.5	104.5	100.3	90.0	79.4
1600	93.9	94.8	94.2	93.7	91.5	90.8	88.8	88.9	87.7	88.3	89.0	92.2	92.8	95.0	98.2	101.2	96.9	86.6	75.8
2000	90.4	90.8	90.2	89.7	87.4	86.7	84.8	84.8	83.7	84.4	85.1	88.6	89.5	91.5	94.5	97.6	93.2	82.7	71.8
2500	86.5	86.3	85.7	85.2	82.9	82.2	80.4	80.3	79.2	80.0	80.8	84.7	85.5	87.5	90.4	93.4	89.0	78.3	67.3
3150	82.1	81.2	80.7	80.1	77.8	77.2	75.4	75.1	74.2	75.6	76.4	80.5	81.3	83.1	85.8	88.9	84.2	73.3	62.1
4000	77.3	75.5	75.0	74.4	72.0	71.4	69.6	69.3	68.6	70.7	71.5	76.0	76.8	78.2	81.0	83.9	78.5	67.6	56.3
5000	71.9	69.6	68.6	68.0	65.6	65.5	64.1	63.0	63.1	65.7	66.4	71.2	71.9	73.3	76.1	78.7	73.2	62.0	50.1
6300	65.8	63.9	62.8	61.9	59.6	59.7	58.4	56.9	57.6	60.4	60.8	66.1	66.7	68.2	71.1	73.6	67.7	56.4	43.8
8000	59.5	58.2	57.4	56.4	53.7	53.9	53.0	51.5	52.7	55.7	56.1	61.6	62.6	64.3	67.4	70.0	64.3	52.5	39.3
10000	52.2	51.7	52.2	51.3	47.9	47.7	47.5	45.6	46.8	50.4	50.8	56.9	58.0	60.1	63.4	66.2	60.6	48.0	34.0
12500	44.4	45.3	46.1	45.2	41.4	41.4	41.5	39.1	40.8	44.4	44.8	51.6	53.2	55.6	59.1	62.1	56.8	43.4	27.8
16000	37.3	38.3	39.1	38.8	34.4	34.4	34.4	31.3	33.9	37.4	37.9	45.6	47.7	50.5	54.3	57.9	52.8	38.4	19.8
20000	28.9	30.0	31.9	31.4	25.7	25.6	26.4	21.0	24.0	29.8	30.1	38.5	41.4	44.4	48.8	53.5	48.2	33.1	7.5
25000	17.2	19.2	21.3	20.9	12.5	13.5	13.6	10.7	9.0	16.5	16.4	30.5	34.3	37.5	42.7	48.7	42.6	26.1	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
85% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 03
AIRCRAFT CODE 510
OPERATION CODE 01018
PROFILE VERSION A
29 APR 76
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	121.2	121.9	121.3	121.0	118.6	117.5	115.3	117.0	115.5	115.0	115.6	117.3	116.9	118.4	121.9	125.1	120.1	110.0	99.9
250	118.9	119.6	119.0	118.7	116.3	115.2	113.0	114.7	113.1	112.7	113.3	115.0	114.7	116.3	119.8	123.0	118.0	108.0	97.8
315	116.5	117.3	116.7	116.3	114.0	112.8	110.7	112.3	110.7	110.3	110.9	112.7	112.4	114.1	117.6	120.9	115.9	105.8	95.6
400	114.1	114.8	114.2	113.9	111.5	110.4	108.3	109.7	108.2	107.8	108.5	110.2	110.0	111.9	115.4	118.7	113.7	103.6	93.4
500	111.5	112.2	111.7	111.3	108.9	107.8	105.7	107.0	105.6	105.2	105.9	107.7	107.4	109.5	113.0	116.4	111.3	101.2	91.0
630	108.8	109.5	108.9	108.6	106.2	105.1	103.0	104.2	102.8	102.4	103.1	104.9	104.8	107.0	110.5	113.9	108.8	98.7	88.4
800	105.9	106.7	106.1	105.8	103.3	102.2	100.1	101.1	99.7	99.4	100.2	102.0	102.1	104.3	107.9	111.3	106.2	96.0	85.7
1000	102.8	103.6	103.0	102.7	100.2	99.1	97.0	97.8	96.5	96.3	97.0	99.0	99.2	101.5	105.1	108.5	103.4	93.1	82.7
1250	99.5	100.2	99.6	99.3	96.8	95.7	93.7	94.3	93.0	93.0	93.7	95.7	96.0	98.4	102.0	105.5	100.3	90.0	79.4
1600	95.9	96.5	96.0	95.6	93.1	92.1	90.0	90.6	89.3	89.4	90.1	92.2	92.8	95.0	98.7	102.2	96.9	86.6	75.8
2000	92.3	92.5	92.0	91.6	89.1	88.0	86.0	86.5	85.3	85.5	86.2	88.6	89.5	91.5	95.0	98.6	93.2	82.7	71.8
2500	88.4	88.0	87.5	87.1	84.6	83.5	81.6	81.9	80.9	81.1	82.0	84.7	85.5	87.5	90.9	94.4	89.0	78.3	67.3
3150	84.0	83.0	82.4	82.1	79.5	78.5	76.6	76.8	75.9	76.7	77.5	80.5	81.3	83.1	86.3	89.9	84.2	73.3	62.1
4000	78.8	76.9	76.4	75.9	73.3	72.4	70.6	70.7	69.9	71.5	72.4	76.0	76.8	78.2	81.4	84.7	78.5	67.6	56.3
5000	73.0	73.7	69.7	69.1	66.6	66.3	64.9	64.0	64.1	66.3	67.1	71.2	71.9	73.3	76.4	79.3	73.2	62.0	50.1
6300	66.6	64.6	63.5	62.7	60.3	60.2	58.9	57.6	58.3	60.8	61.3	66.1	66.7	68.2	71.3	74.0	67.7	56.4	43.8
8000	59.9	58.5	57.8	56.8	54.1	54.2	53.3	51.8	53.0	55.9	56.3	61.6	62.6	64.3	67.5	70.2	64.3	52.5	39.3
10000	52.2	51.7	52.2	51.3	47.9	47.7	47.5	45.6	46.8	50.4	50.8	56.9	58.0	60.1	63.4	66.2	60.6	48.0	34.0
12500	44.4	45.3	46.1	45.2	41.4	41.4	41.5	39.1	40.8	44.4	44.8	51.6	53.2	55.6	59.1	62.1	56.8	43.4	27.8
16000	37.3	38.3	39.1	38.8	34.4	34.4	34.4	31.3	33.9	37.4	37.9	45.6	47.7	50.5	54.3	57.9	52.8	38.4	19.8
20000	28.9	30.0	31.9	31.4	25.7	25.6	26.4	21.0	24.0	29.8	30.1	38.5	41.4	44.4	48.8	53.5	48.2	33.1	7.5
25000	17.2	19.2	21.3	20.9	12.5	13.5	13.6	10.7	9.0	16.5	16.4	30.5	34.3	37.5	42.7	48.7	42.6	26.1	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
85% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 03
AIRCRAFT CODE 510
OPERATION CODE 01018
PROFILE VERSION A
29 APR 76
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	105.4	105.1	104.4	103.8	101.9	101.3	98.8	99.9	98.0	98.4	99.0	102.3	102.2	103.6	106.2	108.8	105.2	95.2	85.2
250	103.1	102.8	102.1	101.5	99.6	99.0	96.5	97.5	95.7	96.2	96.7	100.1	100.1	101.5	104.2	106.7	103.2	93.2	83.2
315	100.8	100.4	99.7	99.1	97.2	96.6	94.2	95.1	93.3	93.9	94.4	97.9	97.9	99.4	102.1	104.7	101.1	91.1	81.1
400	98.4	98.0	97.3	96.7	94.7	94.1	91.7	92.6	90.9	91.5	92.1	95.6	95.7	97.3	100.0	102.6	99.0	89.0	79.0
500	95.9	95.5	94.7	94.1	92.1	91.5	89.2	89.9	88.3	89.1	89.6	93.3	93.4	95.0	97.7	100.3	96.7	86.7	76.7
630	93.3	92.8	92.0	91.4	89.4	88.8	86.5	87.2	85.6	86.5	87.1	90.8	91.1	92.7	95.4	98.0	94.3	84.3	74.3
800	90.6	90.0	89.2	88.6	86.5	85.9	83.7	84.2	82.3	83.9	84.5	88.3	88.6	90.2	92.9	95.6	91.7	81.7	71.7
1000	87.7	87.0	86.2	85.6	83.5	82.9	80.8	81.1	79.9	81.2	81.8	85.8	86.1	87.7	90.4	93.0	89.0	79.0	69.0
1250	84.7	83.9	83.1	82.4	80.2	79.7	77.7	77.8	76.8	78.3	78.9	83.1	83.5	85.0	87.6	90.3	86.0	76.0	66.0
1600	81.5	80.6	79.7	79.0	76.8	76.3	74.5	74.3	73.6	75.4	75.9	80.3	80.7	82.2	84.6	87.4	82.9	72.9	62.9
2000	78.0	77.0	76.2	75.4	73.1	72.7	71.1	70.6	70.2	72.3	72.8	77.4	77.9	79.3	81.6	84.4	79.5	69.5	59.5
2500	74.3	73.2	72.4	71.6	69.2	69.0	67.5	66.7	66.7	69.1	69.5	74.4	74.8	76.0	78.2	80.9	75.7	65.7	55.7
3150	70.4	69.1	68.5	67.6	65.2	65.0	63.7	62.7	63.1	65.7	66.1	71.1	71.4	72.5	74.4	77.1	71.6	61.6	51.6
4000	66.8	64.8	64.3	63.3	60.9	60.8	59.7	58.5	59.2	62.0	62.3	67.5	67.7	68.6	70.4	72.9	67.0	57.0	47.0
5000	61.3	60.2	59.8	58.8	56.4	56.4	55.4	54.1	55.0	57.9	58.1	63.4	63.6	64.4	66.1	68.5	62.4	52.4	42.4
6300	56.1	55.3	55.1	54.1	51.7	51.7	50.8	49.4	50.5	53.5	53.7	59.1	59.2	60.0	61.6	63.9	57.8	47.8	37.8
8000	50.7	50.5	50.8	49.7	47.2	47.2	46.5	45.1	46.2	49.3	49.4	55.0	55.2	56.2	58.0	60.5	54.5	44.5	34.5
10000	45.2	45.5	46.1	45.1	42.5	42.5	42.0	40.4	41.7	44.8	44.8	50.6	51.0	52.1	54.2	56.9	51.2	41.2	31.2
12500	39.6	40.3	41.2	40.3	37.5	37.5	37.2	35.5	36.9	39.9	39.8	45.8	46.4	47.8	50.2	53.0	47.6	37.6	27.6
16000	34.0	34.7	35.9	35.1	32.1	32.2	32.1	30.2	31.6	34.6	34.6	40.5	41.5	43.2	46.0	49.0	44.0	34.0	24.0
20000	28.0	28.9	30.2	29.4	26.4	26.5	26.6	24.6	26.0	28.8	29.0	34.8	36.3	38.5	41.6	44.9	40.3	30.3	20.3
25000	21.7	22.8	24.1	23.4	20.4	20.5	20.9	18.9	20.2	22.7	23.3	28.8	30.9	33.6	37.1	40.6	36.4	26.4	16.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 23

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
85% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

AIRCRAFT CODE 510
OPERATION CODE J1018
PROFILE VERSION A
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PAGE 63

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	107.3	106.8	106.1	105.7	103.6	102.6	100.6	101.5	99.7	99.5	100.1	102.3	102.2	103.6	106.7	109.8	105.2	95.2	85.2
250	105.6	104.6	103.8	103.4	101.3	100.3	97.7	99.2	97.4	97.3	97.8	100.1	100.1	101.5	104.7	107.7	103.2	93.2	83.2
315	102.7	102.2	101.5	101.1	98.9	97.9	95.4	96.8	95.0	95.0	95.5	97.9	97.9	99.4	102.6	105.7	101.1	91.1	81.1
400	100.3	99.8	99.0	98.6	96.4	95.4	92.9	94.2	92.5	92.6	93.2	95.6	95.7	97.3	100.5	103.6	99.0	89.0	79.0
500	97.8	97.2	96.5	96.0	93.8	92.8	90.4	91.6	90.6	90.1	90.7	93.3	93.4	95.0	98.2	101.3	96.7	86.7	76.7
630	95.2	94.6	93.8	93.4	91.1	90.1	87.7	88.8	87.3	87.6	88.2	90.8	91.1	92.7	95.9	99.0	94.3	84.3	74.3
800	92.5	91.8	91.0	90.5	88.2	87.2	85.0	85.9	84.5	85.0	85.6	88.3	88.6	90.2	93.4	96.6	91.7	81.7	71.7
1000	89.6	88.8	88.0	87.5	85.1	84.2	82.0	82.8	81.5	82.3	82.9	85.3	86.1	87.7	90.9	94.0	89.0	79.0	69.0
1250	86.6	85.7	84.8	84.3	81.9	81.0	78.9	79.9	78.5	79.4	80.6	83.1	83.5	85.0	88.1	91.3	86.0	76.0	66.0
1600	83.4	82.3	81.5	81.0	78.4	77.6	75.7	76.0	75.2	76.5	77.0	80.3	80.7	82.2	85.1	88.4	82.9	72.9	62.9
2000	80.0	79.8	77.9	77.4	74.8	74.0	72.3	72.3	71.9	73.4	73.9	77.4	77.9	79.3	82.1	85.4	79.5	69.5	59.5
2500	76.3	75.0	74.2	73.6	71.9	70.2	68.7	68.4	66.4	70.2	70.7	74.4	74.8	76.0	78.7	81.9	75.7	65.7	55.7
3150	72.3	70.9	70.2	69.5	66.9	66.3	64.9	64.4	64.7	66.8	67.2	71.1	71.4	72.5	74.9	78.1	71.6	61.6	51.6
4000	67.6	66.2	65.7	64.9	62.3	61.9	60.7	59.9	60.5	62.9	63.2	67.5	67.7	68.6	70.8	73.7	67.0	57.0	47.0
5000	62.4	61.3	60.9	60.9	57.4	57.2	56.1	55.1	56.0	58.6	58.8	63.4	63.6	64.4	66.4	69.1	62.4	52.4	42.4
6300	56.8	56.0	55.8	54.8	52.3	52.2	51.3	50.1	51.1	53.9	54.1	59.1	59.2	60.0	61.8	64.3	57.8	47.8	37.8
8000	51.1	50.9	51.1	50.1	47.5	47.5	46.8	45.4	46.6	49.5	49.6	55.0	55.2	56.2	58.1	60.7	54.5	44.5	34.5
10000	45.2	45.5	46.1	45.1	42.5	42.5	42.0	40.4	41.7	44.8	44.8	50.5	51.0	52.1	54.2	56.9	51.2	41.2	31.2
12500	39.6	40.3	41.2	40.3	37.5	37.5	37.2	35.5	36.9	39.9	39.8	45.8	46.4	47.8	50.2	53.0	47.6	37.6	27.6
16000	34.0	34.7	35.9	35.1	32.1	32.2	32.1	30.2	31.6	34.6	34.6	40.5	41.5	43.2	46.0	49.0	44.0	34.0	24.0
20000	28.0	28.9	30.2	29.4	26.4	26.5	26.6	24.6	26.0	28.8	28.9	34.8	36.3	38.5	41.6	44.9	40.3	30.3	20.3
25000	21.7	22.8	24.1	23.4	20.4	20.5	20.9	18.9	20.2	22.7	23.3	28.5	30.9	33.6	37.1	40.6	36.4	26.4	16.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

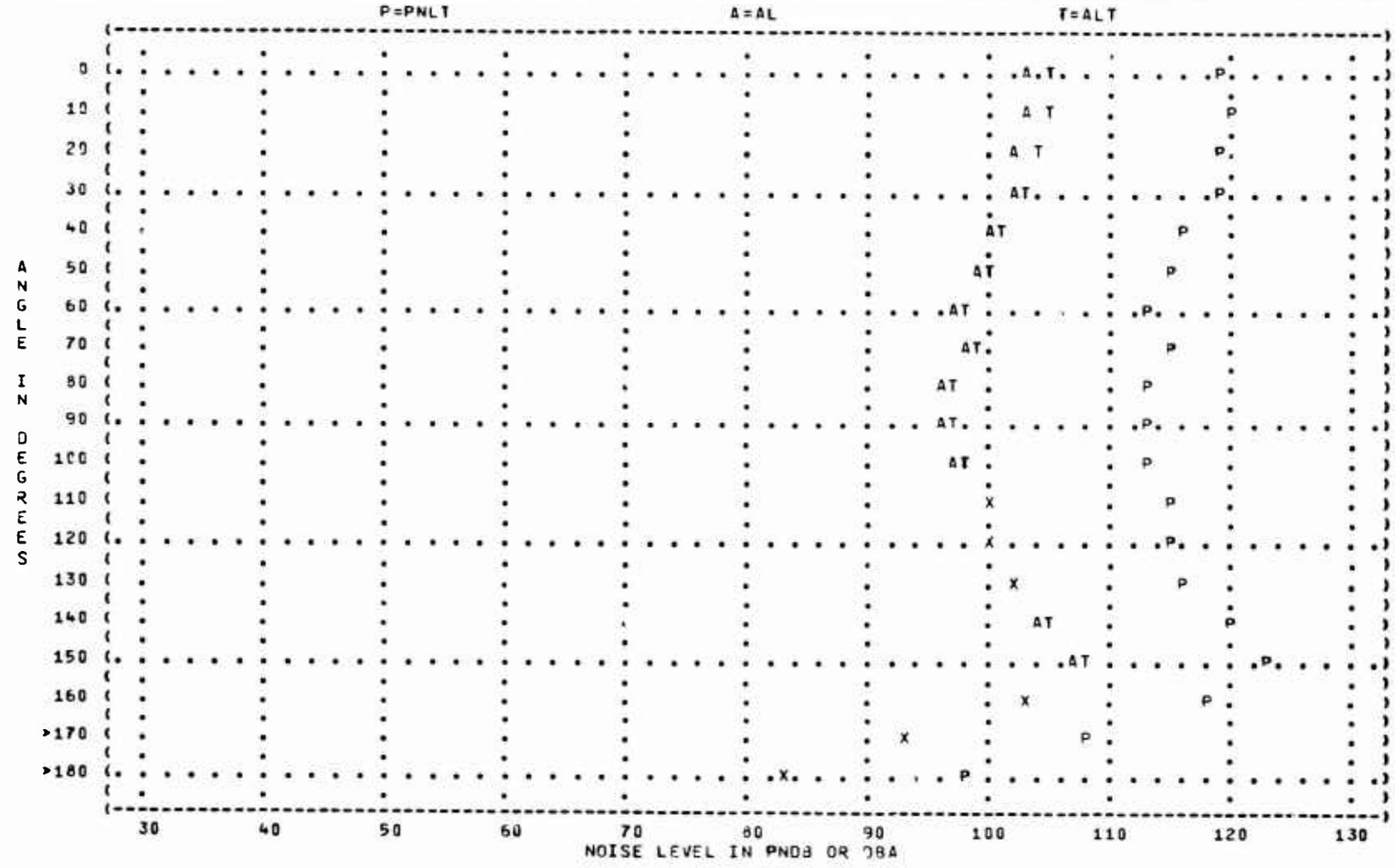
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
85% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 03
AIRCRAFT CODE 510
OPERATION CODE 01018
PROFILE VERSION A
29 APR 76
PAGE J3



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 04

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
MIL PWR, 95% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

AIRCRAFT CODE 510
OPERATION CODE 01004
PROFILE VERSION A
29 APR 76
PAGE C4

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	77	77	78	80	79	80	83	82	86	87	89	91	97	103	108	111	107	97	87
63	79	80	83	83	82	83	85	86	88	89	91	95	100	106	113	114	109	99	89
80	83	83	85	85	85	86	87	88	90	91	93	97	101	108	115	117	112	102	92
100	85	87	88	87	87	89	89	90	92	95	97	100	104	112	118	121	115	105	95
125	86	89	90	90	88	89	89	91	93	95	97	100	107	112	115	121	116	106	96
160	91	92	91	90	90	90	91	92	95	97	99	102	110	116	115	122	118	108	98
200	89	91	90	90	90	89	90	91	92	96	99	102	108	117	117	119	117	107	97
250	86	89	92	92	89	90	91	92	92	94	98	101	107	113	119	116	119	109	99
315	87	90	94	92	89	91	91	90	92	92	95	99	105	112	117	119	118	108	98
400	89	90	93	93	90	89	89	90	90	93	94	99	104	109	114	119	116	106	96
500	96	95	101	96	91	91	90	90	93	95	94	100	104	108	115	117	116	106	96
630	89	94	95	95	93	90	90	91	93	96	95	100	104	107	113	116	113	103	93
800	86	92	95	94	94	92	91	91	93	96	97	100	103	106	112	114	111	101	91
1000	85	90	93	93	93	92	93	93	93	96	96	100	103	106	111	113	108	98	88
1250	84	87	90	90	92	92	92	92	94	95	96	100	102	104	109	111	106	96	86
1600	90	88	89	90	91	92	92	93	94	96	97	100	102	104	109	111	105	95	85
2000	96	90	88	87	87	89	88	90	94	96	98	101	102	104	108	109	105	95	85
2500	86	83	84	85	85	87	88	89	93	94	96	99	100	102	106	107	103	93	83
3150	84	82	84	84	85	87	88	89	93	95	97	99	100	102	105	108	102	92	82
4000	89	83	84	84	85	86	87	88	93	94	96	98	100	101	104	107	101	91	81
5000	84	79	81	82	83	84	85	86	90	92	94	95	97	98	101	105	98	88	78
6300	82	77	78	79	80	81	82	82	88	90	93	94	95	97	101	104	98	88	78
8000	78	73	74	75	77	77	78	79	86	88	89	91	93	95	101	105	96	86	76
10000	75	70	71	72	73	74	76	76	83	84	87	88	91	94	100	103	94	84	74
OVERALL	102	103	105	104	102	103	103	103	106	108	110	113	117	123	127	130	127	117	107

> SPL DATA HERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 04
AIRCRAFT CODE 510
OPERATION CODE 01004
PROFILE VERSION A
29 APR 76
PAGE D4

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
MIL PWR, 95% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	117.0	114.6	116.6	114.7	114.6	115.5	115.9	116.9	120.4	122.0	124.2	125.6	129.3	132.8	136.8	139.2	135.6	125.6	115.6
250	114.8	112.4	114.4	112.5	112.4	113.2	113.7	114.7	118.1	119.8	121.9	124.4	127.1	130.6	134.6	137.0	133.5	123.5	113.4
315	112.5	110.1	112.3	110.3	110.2	111.0	111.4	112.4	115.8	117.4	119.6	122.0	124.8	128.5	132.4	134.9	131.3	121.3	111.3
400	110.2	107.9	110.0	108.1	107.9	108.7	109.0	110.0	113.4	115.0	117.2	119.7	122.4	126.2	130.2	132.6	129.1	119.1	109.1
500	107.8	105.5	107.8	105.8	105.5	106.3	106.5	107.5	110.9	112.5	114.7	117.2	120.0	123.8	127.9	130.3	126.9	116.8	106.7
630	105.3	103.0	105.4	103.4	103.0	103.8	104.0	104.9	108.2	109.9	112.0	114.6	117.4	121.2	125.4	127.9	124.5	114.5	104.4
800	102.6	100.4	103.0	100.9	100.4	101.2	101.4	102.2	105.4	107.1	109.2	111.8	114.6	118.6	122.9	125.4	122.1	112.0	101.9
1000	99.9	97.7	100.4	98.3	97.7	98.5	98.6	99.4	102.4	104.2	106.2	108.9	111.7	115.7	120.3	122.9	119.5	109.5	99.*
1250	96.9	94.8	97.8	95.5	94.8	95.6	95.7	96.4	99.2	101.2	103.0	105.9	108.8	112.*	117.3	120.1	116.6	106.5	96.4
1600	93.7	91.7	95.0	92.6	91.7	92.4	92.5	93.3	96.0	97.9	99.6	102.7	105.5	109.3	114.4	117.2	113.8	103.7	93.4
2000	90.3	88.6	92.1	89.6	88.4	89.1	89.1	89.9	92.4	94.4	96.1	99.2	102.1	106.1	111.3	114.2	110.7	100.6	90.4
2500	86.5	85.3	88.9	86.2	84.7	85.4	85.4	86.2	88.6	90.5	92.2	95.4	98.3	102.2	107.9	110.4	107.3	97.1	86.8
3150	82.3	81.5	85.1	82.4	81.0	81.4	81.4	82.1	84.3	86.3	87.9	91.1	94.1	98.0	103.9	106.1	103.3	93.1	82.8
4000	77.6	77.2	80.9	78.0	76.9	76.9	76.9	77.6	79.6	81.6	83.1	86.4	89.7	93.4	99.4	101.5	98.9	88.7	78.4
5000	72.5	72.5	76.3	73.3	72.4	72.1	72.0	72.7	74.6	76.7	78.0	81.3	84.8	88.6	94.7	96.7	94.2	83.9	73.6
6300	67.5	67.5	71.4	68.4	67.6	67.0	66.8	67.3	69.3	71.5	72.6	76.2	79.8	83.6	89.7	91.8	89.3	79.0	68.6
8000	63.3	63.6	67.6	64.4	63.1	62.4	62.0	62.5	64.6	66.9	68.0	71.7	75.6	79.7	85.9	88.0	85.6	75.3	64.8
10000	58.9	59.2	63.4	60.1	58.3	57.5	57.0	57.5	59.8	62.1	63.1	67.1	71.2	75.5	81.9	83.9	81.7	71.3	60.6
12500	53.9	54.4	58.8	55.2	52.8	51.8	51.4	52.2	54.7	56.9	57.6	62.1	66.4	71.1	77.5	79.6	77.4	66.9	56.1
16000	48.5	48.9	53.7	50.0	46.8	45.9	45.3	46.2	49.1	51.3	51.6	56.6	61.4	66.4	72.9	75.3	72.8	62.2	51.0
20000	42.1	42.7	48.0	43.7	39.4	38.9	38.3	39.2	42.3	44.8	44.9	50.7	55.8	61.1	67.7	69.9	67.7	56.8	45.3
25000	34.1	34.5	40.9	35.7	30.9	29.9	29.3	30.3	34.1	37.2	37.6	43.6	49.5	55.3	62.0	64.3	62.0	50.8	38.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 04
AIRCRAFT CODE 510
OPERATION CODE 01004
PROFILE VERSION A
29 APR 76
PAGE E4

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
MIL PWR, 95% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	119.5	116.2	119.0	114.7	114.6	115.5	115.9	116.9	120.4	122.0	124.2	126.6	129.3	132.8	137.3	139.2	135.6	125.6	115.6
250	117.3	114.0	116.9	112.5	112.4	113.2	113.7	114.7	118.1	119.8	121.9	124.4	127.1	130.6	135.2	137.0	133.5	123.5	113.4
315	115.1	111.8	114.7	110.3	110.2	111.0	111.4	112.4	115.8	117.4	119.6	122.0	124.8	128.5	133.0	134.9	131.3	121.3	111.3
400	112.7	109.5	112.5	108.1	107.9	108.7	109.0	110.0	113.4	115.0	117.2	119.7	122.4	126.2	130.8	132.6	129.1	119.1	109.1
500	110.3	107.1	110.2	105.8	105.5	106.3	106.5	107.5	110.9	112.5	114.7	117.2	120.0	123.8	128.5	130.3	126.9	116.8	106.7
630	107.8	104.6	107.9	103.4	103.0	103.8	104.0	104.9	108.2	109.9	112.0	114.6	117.4	121.2	125.9	127.9	124.5	114.5	104.4
800	105.2	102.0	105.4	100.9	100.4	101.2	101.4	102.2	105.4	107.1	109.2	111.8	114.6	118.6	123.5	125.4	122.1	112.0	101.9
1000	102.4	99.3	102.9	98.3	97.7	98.5	98.6	99.4	102.4	104.2	106.2	108.9	111.7	115.7	120.8	122.9	119.5	109.5	99.3
1250	99.4	96.4	100.2	95.5	94.8	95.6	95.7	96.4	99.2	101.2	103.0	105.9	108.8	112.7	117.9	120.1	116.6	106.5	96.4
1600	96.2	93.3	97.4	92.6	91.7	92.4	92.5	93.3	96.0	97.9	99.6	102.7	105.5	109.3	115.0	117.2	113.8	103.7	93.4
2000	92.8	90.3	94.5	89.6	88.4	89.1	89.1	89.9	92.4	94.4	96.1	99.2	102.1	106.1	111.9	114.2	110.7	100.6	90.4
2500	89.0	87.0	91.3	86.2	84.7	85.4	85.4	86.2	88.6	90.5	92.2	95.4	98.3	102.2	108.4	110.4	107.3	97.1	86.8
3150	84.9	83.1	87.5	82.4	81.0	81.4	81.4	82.1	84.3	86.3	87.9	91.1	94.1	98.0	104.5	106.1	103.3	93.1	82.8
4000	79.7	78.5	82.8	78.0	76.9	76.9	76.9	77.6	79.6	81.6	83.1	86.4	89.7	93.4	99.9	101.5	98.9	88.7	78.4
5000	74.1	73.5	77.7	73.3	72.4	72.1	72.0	72.7	74.6	76.7	78.0	81.3	84.8	88.6	95.0	96.7	94.2	83.9	73.6
6300	68.5	68.2	72.4	68.4	67.6	67.0	66.8	67.3	69.3	71.5	72.6	76.2	79.8	83.6	90.0	91.8	89.3	79.0	68.6
8000	63.8	63.9	68.1	64.4	63.1	62.4	62.0	62.5	64.6	66.9	68.0	71.7	75.6	79.7	86.0	88.0	85.6	75.3	64.8
10000	58.9	59.2	63.4	60.1	58.3	57.5	57.0	57.5	59.8	62.1	63.1	67.1	71.2	75.5	81.9	83.9	81.7	71.3	60.6
12500	53.9	54.4	58.8	55.2	52.8	51.8	51.4	52.2	54.7	56.9	57.6	62.1	66.4	71.1	77.5	79.6	77.4	66.9	56.1
16000	48.5	48.9	53.7	50.0	46.8	45.9	45.3	46.2	49.1	51.3	51.6	56.6	61.4	66.4	72.9	75.0	72.8	62.2	51.0
20000	42.1	42.7	48.0	43.7	39.4	38.9	38.3	39.2	42.3	44.8	44.9	50.7	55.8	61.1	67.7	69.9	67.7	56.8	45.3
25000	34.1	34.5	40.9	35.7	30.9	29.9	29.3	30.3	34.1	37.2	37.6	43.6	49.5	55.3	62.0	64.3	62.0	50.8	38.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
MIL PWR, 95% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 04
AIRCRAFT CODE 510
OPERATION CODE 01004
PROFILE VERSION A
29 APR 76
PAGE F4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	103.2	102.0	104.5	103.3	102.8	102.9	102.9	103.6	106.3	108.2	109.8	112.6	115.2	118.5	123.5	125.6	122.6	112.6	102.6
250	101.0	99.9	102.5	101.2	100.6	100.7	100.7	101.4	104.1	106.0	107.6	110.4	113.1	116.4	121.4	123.5	120.5	110.5	100.5
315	98.8	97.8	100.4	99.0	98.5	98.6	98.5	99.2	101.9	103.7	105.3	108.1	110.9	114.2	119.2	121.4	118.4	108.4	98.4
400	96.6	95.6	98.2	96.9	96.3	96.4	96.3	97.0	99.6	101.5	103.0	105.9	108.7	112.1	117.1	119.2	116.3	106.3	96.3
500	94.3	93.4	96.1	94.7	94.1	94.1	94.0	94.7	97.2	99.1	100.6	103.6	106.4	109.8	114.9	117.0	114.1	104.1	94.1
630	91.9	91.2	93.9	92.5	91.8	91.8	91.7	92.4	94.6	96.7	98.1	101.2	104.0	107.5	112.6	114.8	111.9	101.9	91.9
800	89.5	88.9	91.7	90.2	89.5	89.4	89.3	89.9	92.3	94.2	95.6	98.7	101.6	105.1	110.3	112.4	109.6	99.6	89.6
1000	86.9	86.6	89.4	87.8	87.1	87.0	86.8	87.5	89.7	91.7	93.0	96.1	99.1	102.6	107.9	110.1	107.3	97.3	87.3
1250	84.3	84.1	87.0	85.4	84.6	84.4	84.2	84.9	87.0	89.0	90.2	93.5	96.5	99.9	105.3	107.6	104.8	94.8	84.8
1600	81.6	81.6	84.6	82.9	82.1	81.8	81.6	82.2	84.2	86.2	87.4	90.7	93.8	97.2	102.7	105.0	102.2	92.2	82.2
2000	78.8	79.0	82.1	80.3	79.4	79.0	78.7	79.3	81.3	83.4	84.4	87.9	90.9	94.3	100.0	102.3	99.5	89.5	79.5
2500	75.7	76.2	79.4	77.5	76.5	76.1	75.7	76.3	78.2	80.3	81.2	84.8	87.9	91.1	97.0	99.3	96.5	86.5	76.5
3150	72.2	73.0	76.2	74.4	73.4	72.8	72.5	73.0	74.9	77.0	77.8	81.5	84.6	87.7	93.7	95.9	93.1	83.1	73.1
4000	68.3	69.5	72.6	70.9	70.0	69.3	69.0	69.5	71.2	73.4	74.1	77.8	80.9	83.9	90.0	92.2	89.3	79.3	69.3
5000	64.0	65.4	68.6	66.9	66.1	65.4	65.0	65.5	67.1	69.4	70.0	73.7	76.9	79.8	85.9	88.1	85.1	75.1	65.1
6300	59.3	61.1	64.3	62.6	61.8	61.0	60.7	61.1	62.7	65.0	65.5	69.3	72.5	75.4	81.6	83.7	80.7	70.7	60.7
8000	55.3	57.2	60.6	58.7	57.7	56.8	56.3	56.8	58.4	60.7	61.2	65.1	68.4	71.4	77.7	79.9	77.1	67.1	57.1
10000	51.2	53.1	56.6	54.5	53.2	52.1	51.6	52.1	53.8	56.1	56.5	60.5	64.0	67.2	73.6	75.7	73.1	63.1	53.1
12500	46.9	48.5	52.3	49.8	48.2	47.0	46.5	47.0	48.8	51.1	51.4	55.6	59.2	62.7	69.1	71.3	68.9	58.9	48.9
16000	42.2	43.5	47.4	44.6	42.6	41.5	40.9	41.4	43.4	45.7	45.8	50.2	54.0	57.9	64.2	66.4	64.2	54.2	44.2
20000	36.9	37.9	42.0	38.9	36.5	35.4	34.8	35.4	37.3	39.7	39.9	44.4	48.4	52.8	58.9	61.2	59.1	49.1	39.1
25000	31.1	31.7	36.0	32.6	29.8	28.9	28.3	29.0	31.1	33.3	33.5	38.1	42.5	47.4	53.1	55.5	53.5	43.5	33.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
MIL PWR, 95% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 04
AIRCRAFT CODE 510
OPERATION CODE 01004
PROFILE VERSION A
29 APR 76
PAGE 64

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	105.7	103.6	107.0	103.3	102.8	102.9	102.9	103.6	106.3	108.2	109.8	112.6	115.2	118.5	124.0	125.6	122.6	112.6	102.6
250	103.5	101.5	104.9	101.2	100.6	100.7	100.7	101.4	104.1	106.0	107.6	110.4	113.1	116.4	121.9	123.5	120.5	110.5	100.5
315	101.3	99.4	102.8	99.0	98.5	98.6	98.5	99.2	101.9	103.7	105.3	108.1	110.9	114.2	119.8	121.4	118.4	108.4	98.4
400	99.1	97.3	100.7	96.9	96.3	96.4	96.3	97.0	99.6	101.5	103.0	105.9	108.7	112.1	117.7	119.2	116.3	106.3	96.3
500	96.8	95.1	98.5	94.7	94.1	94.1	94.0	94.7	97.2	99.1	100.6	103.6	106.4	109.8	115.5	117.0	114.1	104.1	94.1
630	94.4	92.8	96.3	92.5	91.8	91.8	91.7	92.4	94.8	96.7	98.1	101.2	104.0	107.5	113.2	114.8	111.9	101.9	91.9
800	92.0	90.5	94.1	90.2	89.5	89.4	89.3	89.9	92.3	94.2	95.6	98.7	101.6	105.1	110.9	112.4	109.6	99.6	89.6
1000	89.5	88.2	91.8	87.8	87.1	87.0	86.8	87.5	89.7	91.7	93.0	96.1	99.1	102.6	108.5	110.1	107.3	97.3	87.3
1250	86.9	85.7	89.5	85.4	84.6	84.4	84.2	84.9	87.0	89.0	90.2	93.5	96.5	99.9	105.9	107.6	104.8	94.8	84.8
1600	84.2	83.2	87.0	82.9	82.1	81.8	81.6	82.2	84.2	86.2	87.4	90.7	93.8	97.2	103.3	105.0	102.2	92.2	82.2
2000	81.3	80.6	84.5	80.3	79.4	79.0	78.7	79.3	81.3	83.4	84.4	87.9	90.9	94.3	100.6	102.3	99.5	89.5	79.5
2500	78.3	77.8	81.8	77.5	76.6	76.1	75.7	76.3	78.2	80.3	81.2	84.8	87.9	91.1	97.6	99.3	96.5	86.5	76.5
3150	74.8	74.6	78.6	74.4	73.4	72.8	72.5	73.0	74.9	77.0	77.8	81.5	84.6	87.7	94.3	95.9	93.1	83.1	73.1
4000	70.4	70.8	74.8	70.9	70.0	69.3	69.0	69.5	71.2	73.4	74.1	77.8	80.9	83.9	90.5	92.2	89.3	79.3	69.3
5000	65.5	66.4	70.1	66.9	66.1	65.4	65.0	65.5	67.1	69.4	70.0	73.7	76.9	79.8	86.3	88.1	85.1	75.1	65.1
6300	60.3	61.7	65.3	62.6	61.8	61.0	60.7	61.1	62.7	65.0	65.5	69.3	72.5	75.4	81.8	83.7	80.7	70.7	60.7
8000	55.8	57.6	61.1	58.7	57.7	56.8	56.3	56.8	58.4	60.7	61.2	65.1	68.4	71.4	77.8	79.9	77.1	67.1	57.1
10000	51.2	53.1	56.6	54.5	53.2	52.1	51.6	52.1	53.8	56.1	56.5	60.5	64.0	67.2	73.6	75.7	73.1	63.1	53.1
12500	46.9	48.5	52.3	49.8	48.2	47.0	46.5	47.0	48.8	51.1	51.4	55.6	59.2	62.7	69.1	71.3	68.9	58.9	48.9
16000	42.2	43.5	47.4	44.6	42.6	41.5	40.9	41.4	43.4	45.7	45.8	50.2	54.0	57.9	64.2	66.4	64.2	54.2	44.2
20000	36.9	37.9	42.0	38.9	36.5	35.4	34.8	35.4	37.5	39.7	39.9	44.4	48.4	52.8	58.9	61.2	59.1	49.1	39.1
25000	31.1	31.7	36.0	32.6	29.8	28.9	28.3	29.0	31.1	33.3	33.5	38.1	42.5	47.4	53.1	55.5	53.5	43.5	33.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

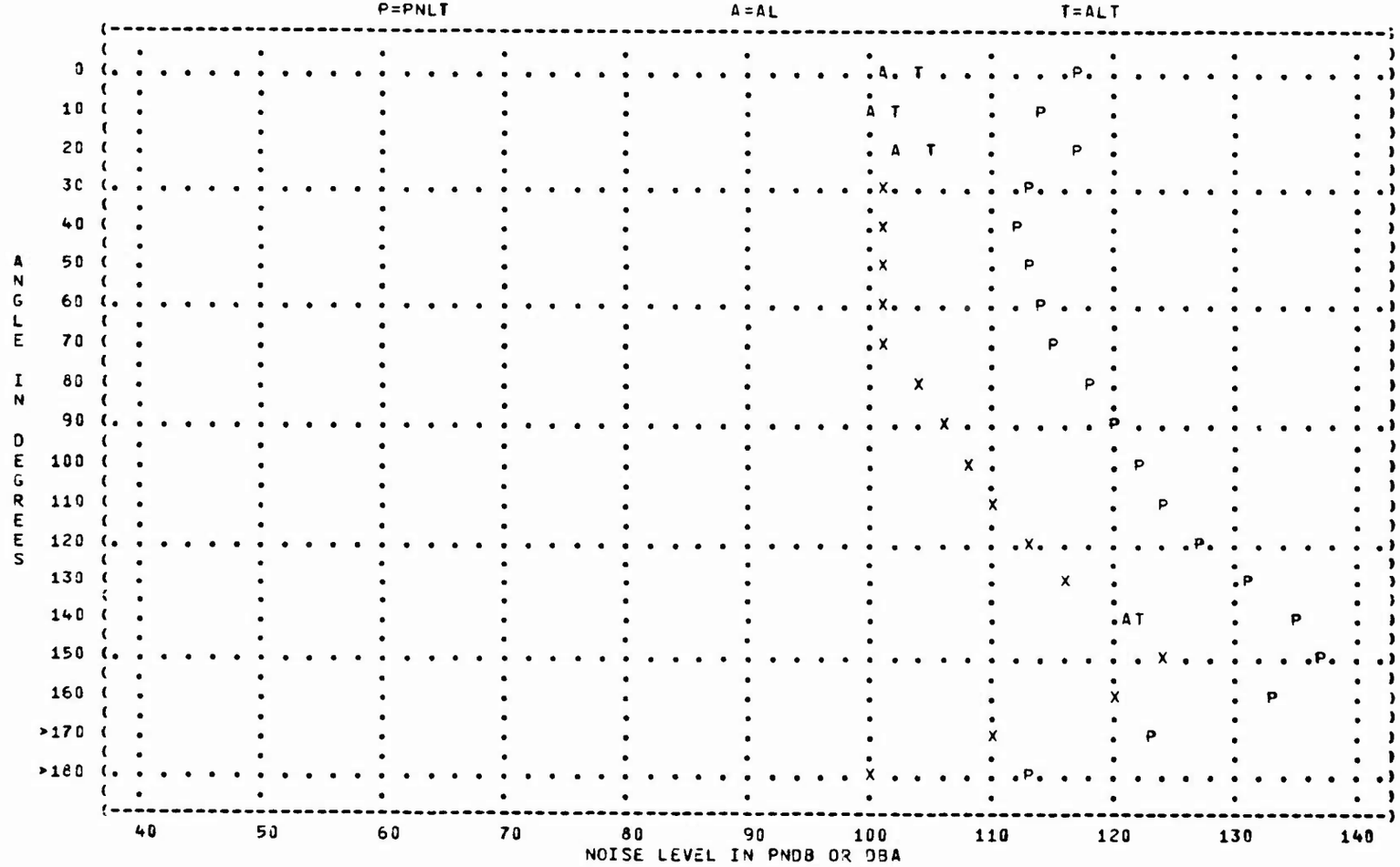
IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 04
AIRCRAFT CODE 510
OPERATION CODE 01004
PROFILE VERSION A
29 APR 76
PAGE J4

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
MIL PWR, 95% RPM, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 05

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
AFTERBURNER ZONE3, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

AIRCRAFT CODE 510
OPERATION CODE 01002
PROFILE VERSION A
29 APR 76
PAGE C5

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	89	87	89	90	90	91	92	92	94	95	94	103	109	115	119	117	110	100	90
63	90	90	92	93	92	93	95	95	96	99	100	106	112	120	123	117	112	102	92
80	91	92	96	95	94	96	96	98	99	101	103	109	115	122	124	118	115	105	95
100	93	95	98	97	96	97	98	99	101	103	105	112	116	124	126	122	118	108	98
125	95	98	99	98	97	97	99	99	102	104	106	112	117	121	126	123	119	109	99
160	98	100	99	98	97	98	99	100	102	105	107	115	121	121	125	123	120	110	100
200	96	98	96	98	96	97	99	99	101	104	106	113	119	123	122	121	118	108	98
250	91	94	98	98	97	98	98	99	100	104	105	110	117	122	120	117	116	106	96
315	93	97	100	99	96	97	97	98	98	101	104	110	115	120	119	117	116	106	96
400	92	94	98	99	96	96	97	98	99	101	104	109	113	118	117	115	113	103	93
500	92	94	98	99	96	95	97	98	100	101	105	111	114	117	115	115	111	101	91
630	91	97	98	99	97	95	97	99	101	103	106	112	113	117	114	113	108	98	88
800	89	95	97	99	98	97	98	99	101	103	107	111	113	116	113	112	106	96	86
1000	88	93	96	97	99	98	100	101	102	104	108	112	113	116	114	112	104	94	84
1250	88	93	94	96	97	97	99	101	103	104	107	111	113	116	113	109	101	91	81
1600	92	94	95	97	98	98	101	103	104	106	109	110	112	114	112	107	99	89	79
2000	97	92	92	93	94	95	98	100	101	103	106	111	112	115	112	107	98	88	78
2500	87	89	90	92	93	94	98	100	101	103	106	109	110	113	111	103	96	86	76
3150	86	88	90	93	94	94	98	101	102	102	106	109	110	113	110	103	96	86	76
4000	90	87	88	92	93	92	97	100	100	102	105	109	111	113	110	103	95	85	75
5000	85	84	86	90	91	90	95	98	98	100	103	106	108	111	108	102	92	82	72
6300	83	81	83	86	88	88	92	95	95	98	100	106	108	110	107	101	90	80	70
8000	80	76	79	83	84	83	88	92	92	94	98	105	107	110	106	101	87	77	67
10000	76	73	76	80	80	81	85	90	90	93	96	104	108	111	106	101	86	76	66
OVERALL	106	108	109	110	109	109	111	113	114	116	119	124	128	132	133	130	127	117	107

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
AFTERBURNER ZONE3, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.308

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 05
AIRCRAFT CODE 510
OPERATION CODE 01002
PROFILE VERSION A
29 APR 76
PAGE 05

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	119.1	118.5	119.8	121.8	122.0	122.2	125.3	127.5	128.6	130.2	133.0	137.5	139.9	143.1	141.4	137.7	133.1	123.0	113.0
250	116.9	116.4	117.6	119.6	119.8	120.0	123.0	125.2	126.3	127.9	130.8	135.2	137.6	140.9	139.1	135.6	131.0	120.9	110.9
315	114.7	114.2	115.4	117.3	117.5	117.7	120.7	122.9	124.0	125.7	128.5	132.9	135.3	138.5	136.9	133.4	128.8	118.8	108.8
400	112.4	111.9	113.1	115.0	115.1	115.3	118.3	120.5	121.6	123.3	126.1	130.5	132.9	136.1	134.5	131.2	126.6	116.6	106.6
500	110.0	109.5	110.8	112.5	112.6	112.8	115.8	118.0	119.1	120.9	123.6	128.0	130.4	133.6	132.2	128.8	124.4	114.3	104.2
630	107.5	107.0	108.4	110.0	110.1	110.3	113.2	115.4	116.5	118.3	121.0	125.3	127.8	131.0	129.7	126.3	122.0	112.0	101.9
800	104.8	104.4	105.8	107.4	107.5	107.6	110.5	112.6	113.8	115.6	118.2	122.6	125.1	128.4	127.1	123.6	119.7	109.6	99.4
1000	102.1	101.7	103.1	104.7	104.8	104.9	107.6	109.6	110.8	112.7	115.5	119.7	122.3	125.6	124.3	120.8	117.1	107.1	96.8
1250	99.1	98.8	100.2	101.8	101.9	102.0	104.5	106.4	107.7	109.7	112.6	116.7	119.3	122.6	121.3	117.9	114.2	104.1	93.8
1600	95.9	95.6	97.2	98.7	98.8	98.9	101.3	103.1	104.5	106.5	109.4	113.5	116.1	119.4	118.1	115.0	111.0	100.9	90.6
2000	92.4	92.3	94.0	95.3	95.4	95.5	97.9	99.7	101.1	103.1	106.0	110.0	112.7	116.0	114.9	111.8	108.0	97.8	87.5
2500	88.6	88.8	90.4	91.7	91.7	91.7	94.1	95.9	97.4	99.3	102.3	106.2	108.8	112.2	111.1	108.3	104.2	94.0	83.6
3150	84.3	85.1	86.5	87.9	87.7	87.7	90.0	91.8	93.3	95.2	98.3	102.0	104.6	108.1	106.8	104.3	99.9	89.6	79.2
4000	79.6	80.7	82.2	83.6	83.2	83.2	85.5	87.3	88.8	90.7	93.8	97.3	99.9	103.6	102.2	99.7	95.3	84.9	74.5
5000	74.4	76.0	77.5	78.9	78.3	78.3	80.6	82.4	83.9	85.3	88.9	92.5	95.3	98.8	97.4	95.0	90.5	80.1	69.6
6300	68.6	71.0	72.5	73.9	73.3	72.9	75.2	77.0	78.6	80.5	83.7	87.5	90.3	93.8	92.3	90.0	85.5	75.1	64.5
8000	63.0	66.8	68.4	69.7	68.9	68.2	70.0	71.6	73.3	75.2	78.5	83.3	86.0	89.8	88.5	86.3	81.9	71.5	60.8
10000	58.4	62.3	63.9	65.2	64.1	63.4	65.0	66.3	68.4	70.2	73.7	78.8	81.7	85.6	84.4	82.4	78.1	67.6	56.6
12500	53.3	57.4	59.2	60.4	58.7	58.0	59.6	61.1	63.2	65.2	68.6	73.9	77.2	81.3	80.2	78.2	74.0	63.4	52.1
16000	47.8	51.7	54.0	55.2	53.2	52.5	54.0	55.4	57.5	59.6	63.1	68.7	72.4	76.6	75.6	73.6	69.6	58.7	47.1
20000	40.8	45.2	48.1	49.2	47.0	46.2	47.8	49.3	51.5	53.3	57.2	63.1	67.1	71.5	70.7	68.7	64.7	53.5	41.0
25000	33.5	37.2	41.0	42.1	39.3	38.8	40.3	41.9	44.4	46.5	50.6	56.9	61.3	65.9	65.9	63.2	59.2	47.5	33.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 05
AIRCRAFT CODE 510
OPERATION CODE 01002
PROFILE VERSION A
29 APR 76
PAGE E5

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
AFTERBURNER ZONE3, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	121.5	118.5	119.8	121.8	122.0	122.2	125.3	127.5	128.6	130.2	133.0	137.5	139.9	143.6	141.4	137.7	133.1	123.0	113.0
250	119.3	116.4	117.6	119.6	119.8	120.0	123.0	125.2	126.3	127.9	130.8	135.2	137.6	141.4	139.1	135.6	131.0	120.9	110.9
315	117.1	114.2	115.4	117.3	117.5	117.7	120.7	122.9	124.0	125.7	128.5	132.9	135.3	139.0	136.9	133.4	128.8	118.8	108.8
400	114.8	111.9	113.1	115.0	115.1	115.3	118.3	120.5	121.6	123.3	126.1	130.5	132.9	136.6	134.5	131.2	126.6	116.6	106.6
500	112.4	109.5	110.8	112.5	112.6	112.8	115.8	118.0	119.1	120.9	123.6	128.0	130.4	134.1	132.2	128.8	124.4	114.3	104.2
630	109.9	107.8	108.4	110.0	110.1	110.3	113.2	115.4	116.5	118.3	121.0	125.3	127.8	131.5	129.7	126.3	122.0	112.0	101.9
800	107.2	104.4	105.8	107.4	107.5	107.6	110.5	112.6	113.8	115.6	118.2	122.6	125.1	128.9	127.1	123.6	119.7	109.6	99.4
1000	104.5	101.7	103.1	104.7	104.8	104.9	107.6	109.6	110.8	112.7	115.5	119.7	122.3	126.1	124.3	120.8	117.1	107.1	96.8
1250	101.5	98.8	100.2	101.8	101.9	102.0	104.5	106.4	107.7	109.7	112.6	116.7	119.3	123.1	121.3	117.9	114.2	104.1	93.8
1600	98.3	95.6	97.2	98.7	98.8	98.9	101.3	103.1	104.5	106.5	109.4	113.5	116.1	119.9	118.1	115.0	111.0	100.9	90.6
2000	94.8	92.3	94.0	95.3	95.4	95.5	97.9	99.7	101.1	103.1	106.0	110.0	112.7	116.5	114.9	111.8	108.0	97.8	87.5
2500	91.0	88.8	90.4	91.7	91.7	91.7	94.1	95.9	97.4	99.3	102.3	106.2	108.8	112.7	111.1	108.3	104.2	94.0	83.6
3150	86.7	85.1	86.5	87.9	87.7	87.7	90.0	91.8	93.3	95.2	98.3	102.0	104.6	108.6	106.8	104.3	99.9	89.6	79.2
4000	81.5	80.7	82.2	83.6	83.2	83.2	85.5	87.3	88.8	90.7	93.8	97.3	99.9	104.0	102.2	99.7	95.3	84.9	74.5
5000	75.8	76.0	77.5	78.9	78.3	78.3	80.6	82.4	83.9	85.8	88.9	92.5	95.3	99.1	97.4	95.0	90.5	80.1	69.6
6300	69.5	71.0	72.5	73.9	73.5	72.9	75.2	77.0	78.6	80.5	83.7	87.5	90.3	94.0	92.3	90.0	85.5	75.1	64.5
8000	63.4	66.8	68.4	69.7	68.9	68.2	70.0	71.6	73.3	75.2	78.5	83.3	86.0	89.9	88.5	86.3	81.9	71.5	60.8
10000	58.4	62.3	63.9	65.2	64.1	63.4	65.0	66.3	68.4	70.2	73.7	78.8	81.7	85.6	84.4	82.4	78.1	67.6	56.6
12500	53.3	57.4	59.2	60.4	58.7	58.0	59.6	61.1	63.2	65.2	68.6	73.9	77.2	81.3	80.2	78.2	74.0	63.4	52.1
16000	47.8	51.7	54.0	55.2	53.2	52.5	54.0	55.4	57.5	59.6	63.1	68.7	72.4	76.6	75.6	73.6	69.6	58.7	47.1
20000	40.8	45.2	48.1	49.2	47.8	46.2	47.8	49.3	51.5	53.3	57.2	63.1	67.1	71.5	70.7	68.7	64.7	53.5	41.0
25000	33.5	37.2	41.0	42.1	39.3	38.8	40.3	41.9	44.4	46.5	50.6	56.9	61.3	65.9	65.9	63.2	59.2	47.5	33.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 05
AIRCRAFT CODE 510
OPERATION CODE 01002
PROFILE VERSION A
29 APR 76
PAGE F5

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
AFTERBURNER ZONE3, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.308

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	104.3	105.6	107.2	108.9	108.9	108.7	111.4	113.5	114.8	116.5	119.6	123.5	125.6	126.6	126.6	123.5	119.3	109.3	99.3
250	102.2	103.5	105.1	106.7	106.8	106.5	109.2	111.3	112.6	114.3	117.4	121.3	123.4	126.4	124.4	121.4	117.3	107.3	97.3
315	100.0	101.3	103.0	104.6	104.6	104.3	107.0	109.0	110.3	112.1	115.2	119.0	121.2	124.2	122.3	119.3	115.2	105.2	95.2
400	97.7	99.1	100.8	102.4	102.4	102.1	104.7	106.7	108.1	109.8	112.9	116.7	118.9	122.0	120.0	117.1	113.1	103.1	93.1
500	95.4	96.9	98.6	100.2	100.1	99.8	102.4	104.4	105.7	107.5	110.6	114.4	116.6	119.7	117.8	114.9	110.9	100.9	90.9
630	93.0	94.6	96.4	97.9	97.8	97.5	100.0	102.0	103.3	105.1	108.2	112.0	114.2	117.3	115.4	112.6	108.6	98.6	88.6
800	90.6	92.3	94.1	95.6	95.4	95.1	97.5	99.4	100.9	102.6	105.7	109.5	111.8	114.9	113.0	110.3	106.3	96.3	86.3
1000	88.0	89.9	91.7	93.1	92.9	92.6	95.0	96.8	98.3	100.0	103.2	107.0	109.2	112.4	110.5	107.9	103.9	93.9	83.9
1250	85.3	87.4	89.2	90.6	90.4	90.0	92.3	94.1	95.6	97.3	100.6	104.4	106.6	109.7	107.8	105.3	101.3	91.3	81.3
1600	82.5	84.7	86.6	88.1	87.7	87.3	89.5	91.3	92.8	94.5	97.8	101.6	103.9	107.0	105.1	102.6	98.6	88.6	78.6
2000	79.6	82.0	83.9	85.4	85.0	84.4	86.6	88.3	89.9	91.6	94.9	98.8	101.0	104.2	102.2	99.9	95.7	85.7	75.7
2500	76.3	79.1	81.0	82.4	82.0	81.4	83.5	85.2	86.8	88.4	91.9	95.8	98.0	101.1	99.0	96.8	92.5	82.5	72.5
3150	72.8	75.9	77.7	79.3	78.8	78.1	80.1	81.8	83.5	85.1	88.6	92.5	94.6	97.8	95.6	93.5	88.9	78.9	68.9
4000	69.9	72.3	74.1	75.7	75.3	74.5	76.5	78.1	79.9	81.4	85.0	88.9	91.0	94.1	91.8	89.8	84.9	74.9	64.9
5000	64.6	68.2	70.1	71.7	71.3	70.4	72.4	74.0	75.8	77.3	80.9	84.9	87.0	90.0	87.7	85.7	80.6	70.6	60.6
6300	59.9	63.9	65.7	67.4	67.0	66.1	68.0	69.5	71.4	72.9	76.5	80.6	82.6	85.6	83.3	81.4	76.1	66.1	56.1
8000	55.6	59.8	61.8	63.4	62.8	61.8	63.6	65.0	66.9	68.5	72.1	76.4	78.5	81.5	79.3	77.5	72.6	62.6	52.6
10000	51.1	55.5	57.5	59.0	58.2	57.1	58.8	60.2	62.2	63.7	67.4	71.8	74.0	77.2	75.0	73.4	68.8	58.8	48.8
12500	46.4	50.7	52.8	54.3	53.1	52.0	53.6	54.9	57.0	58.5	62.2	66.9	69.2	72.5	70.4	68.9	64.7	54.7	44.7
16000	41.3	45.5	47.7	49.1	47.6	46.5	48.0	49.2	51.4	52.8	56.6	61.5	63.9	67.5	65.6	64.1	60.3	50.3	40.3
20000	36.0	39.8	42.1	43.4	41.6	40.6	41.9	43.2	45.3	46.8	50.5	55.6	58.3	62.1	60.6	59.0	55.5	45.6	35.6
25000	30.2	33.7	36.0	37.1	35.1	34.3	35.5	36.7	38.8	40.4	43.9	49.3	52.5	56.4	55.6	53.7	50.6	40.6	30.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 05
AIRCRAFT CODE 510
OPERATION CODE 01002
PROFILE VERSION A
29 APR 76
PAGE G5

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
AFTERBURNER ZONE3, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	106.7	105.6	107.2	108.9	108.9	108.7	111.4	113.5	114.8	116.5	119.6	123.5	125.6	129.1	126.6	123.5	119.3	109.3	99.3
250	104.6	103.5	105.1	106.7	106.8	106.5	109.2	111.3	112.6	114.3	117.4	121.3	123.4	126.9	124.4	121.4	117.3	107.3	97.3
315	102.4	101.3	103.0	104.6	104.6	104.3	107.0	109.0	110.3	112.1	115.2	119.0	121.2	124.7	122.3	119.3	115.2	105.2	95.2
400	100.1	99.1	100.8	102.4	102.4	102.1	104.7	106.7	108.1	109.8	112.9	116.7	118.9	122.5	120.0	117.1	113.1	103.1	93.1
500	97.8	96.9	98.6	100.2	100.1	99.8	102.4	104.4	105.7	107.5	110.6	114.4	116.6	120.1	117.8	114.9	110.9	100.9	90.9
630	95.4	94.6	96.4	97.9	97.8	97.5	100.0	102.0	103.3	105.1	108.2	112.0	114.2	117.8	115.4	112.6	108.6	98.6	88.6
800	93.0	92.3	94.1	95.6	95.4	95.1	97.5	99.4	100.9	102.6	105.7	109.5	111.8	115.4	113.0	110.3	106.3	96.3	86.3
1000	90.4	89.9	91.7	93.1	92.9	92.6	95.0	96.8	98.3	100.0	103.2	107.0	109.2	112.9	110.5	107.9	103.9	93.9	83.9
1250	87.7	87.4	89.2	90.6	90.4	90.0	92.3	94.1	95.6	97.3	100.6	104.4	106.6	110.2	107.8	105.3	101.3	91.3	81.3
1600	84.9	84.7	86.6	88.1	87.7	87.3	89.5	91.3	92.8	94.5	97.8	101.6	103.9	107.5	105.1	102.6	98.6	88.6	78.6
2000	82.0	82.0	83.9	85.4	85.0	84.4	86.6	88.3	89.9	91.6	94.9	98.8	101.0	104.7	102.2	99.9	95.7	85.7	75.7
2500	78.7	79.1	81.0	82.4	82.0	81.4	83.5	85.2	86.8	88.4	91.9	95.8	98.0	101.6	99.0	96.8	92.5	82.5	72.5
3150	75.2	75.9	77.7	79.3	78.8	78.1	80.1	81.8	83.5	85.1	88.6	92.5	94.6	98.3	95.6	93.5	88.9	78.9	68.9
4000	70.9	72.3	74.1	75.7	75.3	74.5	76.5	78.1	79.9	81.4	85.0	88.9	91.0	94.5	91.8	89.8	84.3	74.9	64.9
5000	66.0	68.2	70.1	71.7	71.3	70.4	72.4	74.0	75.8	77.3	80.9	84.9	87.0	90.3	87.7	85.7	80.6	70.6	60.6
6300	60.9	63.9	65.7	67.4	67.0	66.1	68.0	69.5	71.4	72.9	76.5	80.6	82.6	85.8	83.3	81.4	76.1	66.1	56.1
8000	56.1	59.8	61.8	63.4	62.8	61.8	63.6	65.0	66.9	68.5	72.1	76.4	78.5	81.6	79.3	77.5	72.6	62.6	52.6
10000	51.1	55.5	57.5	59.0	58.2	57.1	58.8	60.2	62.2	63.7	67.4	71.8	74.0	77.2	75.0	73.4	68.8	58.8	48.8
12500	46.4	50.7	52.8	54.3	53.1	52.0	53.6	54.9	57.0	58.5	62.2	66.9	69.2	72.5	70.4	68.9	64.7	54.7	44.7
16000	41.3	45.5	47.7	49.1	47.6	46.5	48.0	49.2	51.4	52.8	56.6	61.5	63.9	67.5	65.6	64.1	60.3	50.3	40.3
20000	36.0	39.8	42.1	43.4	41.6	40.6	41.9	43.2	45.3	46.8	50.5	55.6	58.3	62.1	60.6	59.0	55.6	45.6	35.6
25000	30.2	33.7	36.0	37.1	35.1	34.3	35.5	36.7	38.8	40.4	43.9	49.3	52.5	56.4	55.6	53.7	50.6	40.6	30.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

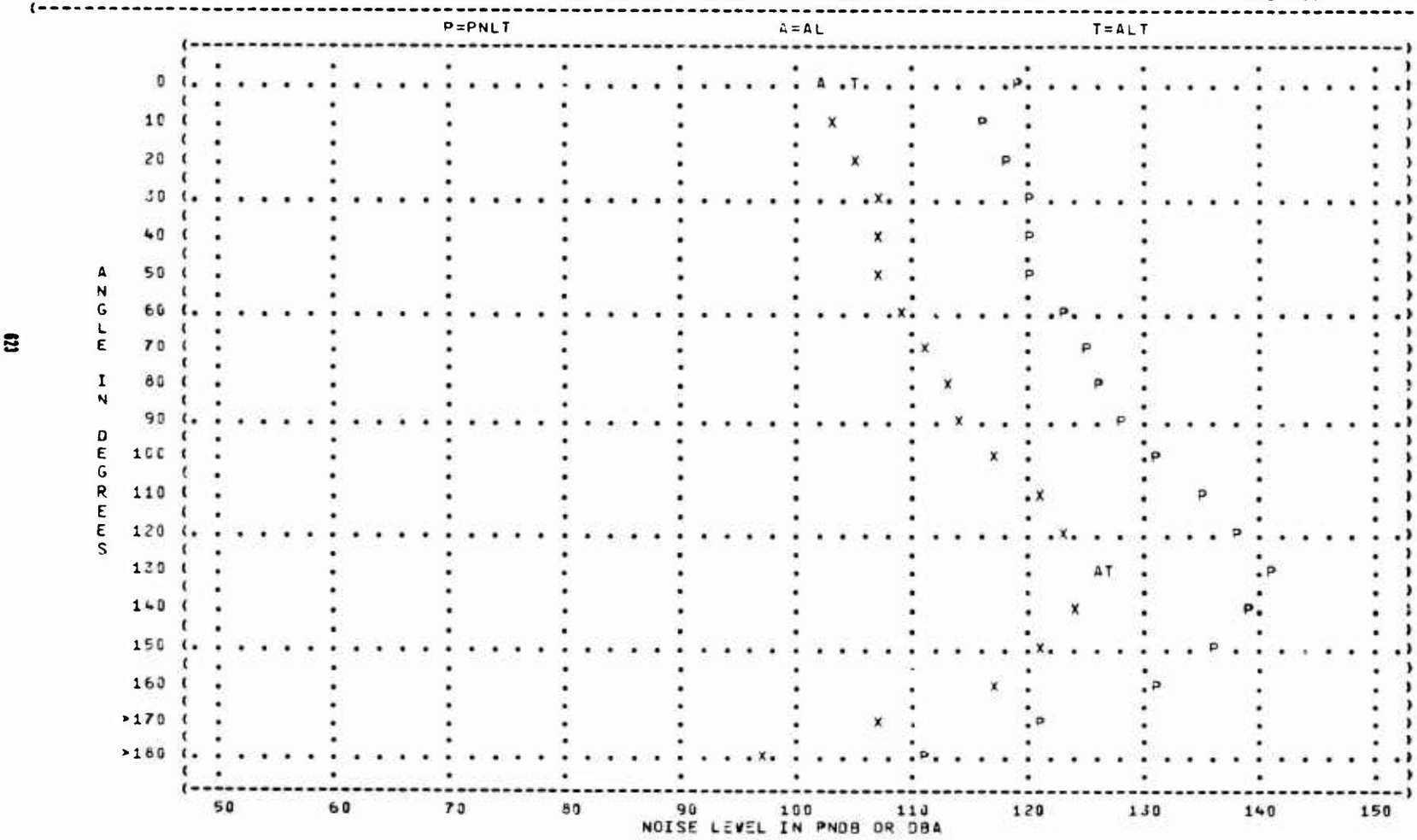
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-111A AIRCRAFT
ENG. TF30-P-3
GROUND RUNUP

OPERATION:
AFTERBURNER ZONE3, F-111A
SINGLE ENGINE, TF30-P-3
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -1.308

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -1.3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-510-001
RUN 05
AIRCRAFT CODE 510
OPERATION CODE 01002
PROFILE VERSION A
29 APR 76
PAGE J5



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF F-111D AIRCRAFT F-111D AIRCRAFT F-111D AIRCRAFT F-111D AIRCRAFT F-111D AIRCRAFT F-111D USAF

NOISE PRODUCED ON THE GROUND BY

F-111D AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 511
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING	PAGE
AFTERBURNER 97% RPM	625-633
TAKEOFF 97% RPM	634-642
APPROACH 81% RPM	643-651
INTERMEDIATE 86% RPM	652-660

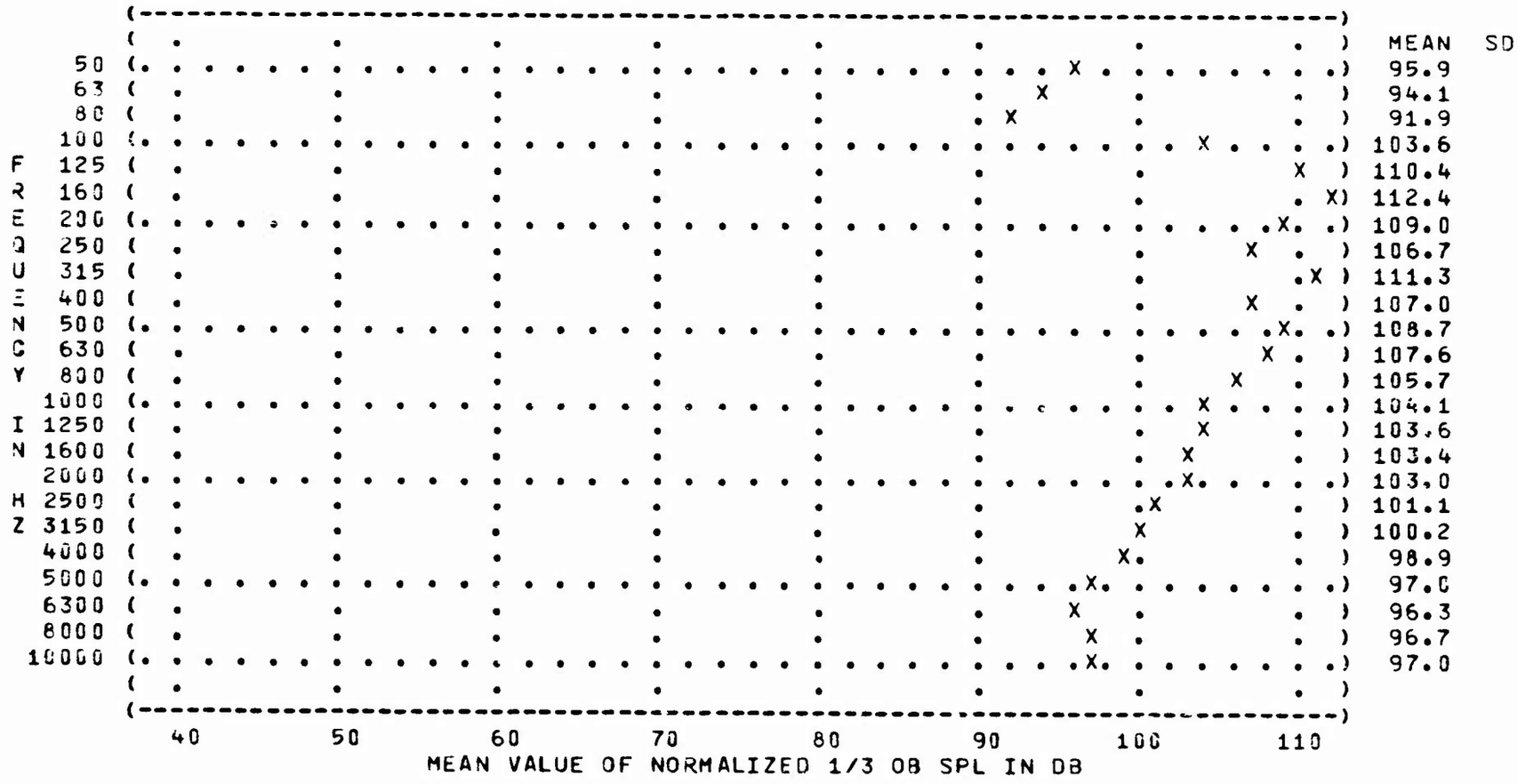
FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

18 FEB 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF F-111D AIRCRAFT F-111D AIRCRAFT F-111D AIRCRAFT F-111D AIRCRAFT F-111D AIRCRAFT F-111D USAF



F-111D AFTERBURNER POWER 97 % RPM

AIRSPEED = 350 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-511-101-180276

PNLT = 129.0 PNDB
PNL = 123.2 PNDB
ALT = 116.0 DBA
AL = 115.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-111D

OPERATION:
AFTERBURNER POWER
97 % RPM
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 511
OPS CODE: 101
PROFILE VER: A
18 FEB 76
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	110	108	106	118	125	127	123	121	126	122	123	122	121	119	119	120	120	119	119	120	120	122	128	137
250	108	106	104	116	123	125	121	119	124	120	121	120	119	117	117	118	118	117	117	118	117	120	125	133
315	106	104	102	114	121	123	119	117	122	117	119	118	117	115	115	115	115	114	115	115	114	117	122	129
400	104	102	100	112	119	121	117	115	120	115	117	116	115	113	113	113	113	112	112	112	111	113	118	124
500	102	100	98	110	117	119	115	113	118	113	115	114	112	111	111	111	111	109	109	109	108	110	114	119
630	100	98	96	108	114	117	113	111	115	111	113	112	110	109	108	108	108	107	107	106	105	106	109	113
800	98	96	94	106	112	114	111	109	113	109	111	110	108	106	106	106	106	104	104	103	101	101	103	106
1000	96	94	92	104	110	112	109	107	111<	107	109	108	106	104	104	103	103	101	100	99	97	96	97	97
1250	94	92	90	102	108	110	107	105	109	105	106	105	103	102	101	101	100	98	97	95	92	90	89	87
1600	92	90	88	100	106	108	105	102	107	103	104	103	101	99	98	98	97	94	92	90	87	83	80	74
2000	90	88	86	97	104	106	103	100	105	100	102	101	98	96	95	95	93	90	88	84	80	75	69	59
2500	88	86	84	95	102	104	100	98	102	98	99	98	96	93	92	91	90	86	82	77	73	66	56	40
3150	86	84	82	93	100	102	98	96	100	96	97	95	93	90	89	87	85	81	76	69	64	54	39	18
4000	84	82	80	91	98	100	96	93	98	93	94	92	90	87	85	83	80	75	69	60	53	39	19	
5000	82	80	77	89	96	97	94	91	95	90	91	89	86	83	81	78	75	68	60	49	40	22		
6300	79	78	75	87	93	95	91	88	92	87	88	86	82	79	76	72	68	60	50	35	24	0		
8000	77	75	73	84	91	93	89	86	90	84	85	82	78	74	70	66	60	50	38	18	5			
10000	75	73	71	82	88	90	86	83	87	81	81	78	73	68	64	58	51	38	22					
12500	73	71	68	80	86	87	83	80	83	77	77	73	68	62	56	49	39	24	4					
16000	71	69	66	77	83	84	80	76	79	73	72	67	61	54	47	37	25	7						
20000	68	66	63	74	80	81	77	73	75	68	66	61	53	45	36	24	9							
25000	66	64	61	72	77	78	73	68	70	62	60	53	44	34	23	7								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111D

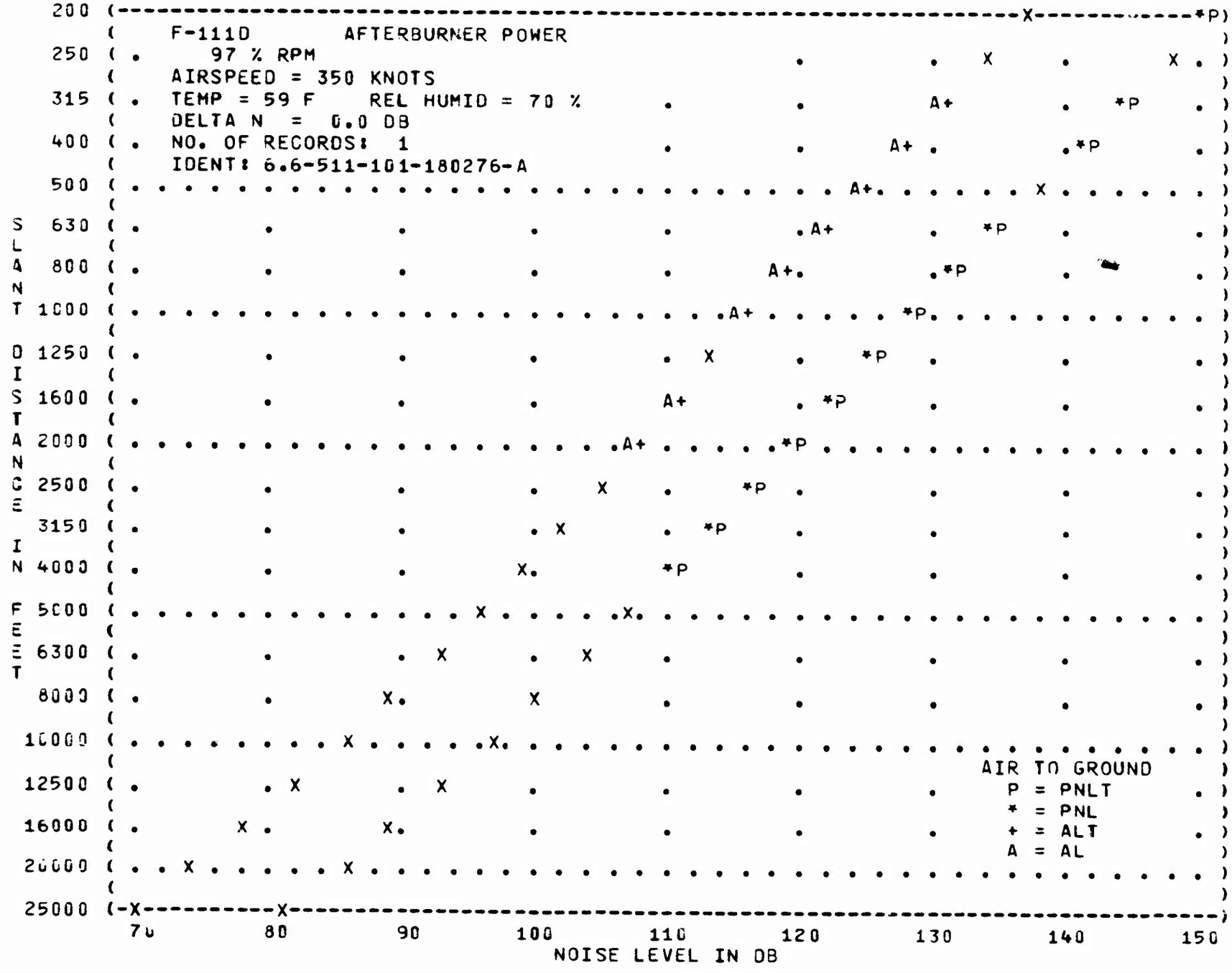
OPERATION:
AFTERBURNER POWER
97 % RPM
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 511
OPS CODE: 101
PROFILE VER: A
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PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	136.7	137.5	150.5	151.2	132.3	133.3	136.8
250	133.6	134.4	147.5	148.3	130.3	131.3	134.9
315	130.4	131.2	144.4	145.2	128.1	129.1	132.8
400	127.2	127.9	141.1	141.9	125.8	126.8	130.5
500	123.9	124.7	137.6	138.4	123.6	124.6	128.0
630	120.9	121.6	134.3	135.1	121.5	122.5	125.7
800	118.0	118.7	131.4	132.1	119.6	120.6	123.7
1000	115.3	116.0	128.2	129.0	117.9	118.9	121.6
1250	112.6	113.4	125.2	125.9	116.3	117.3	119.6
1600	110.0	110.7	122.3	123.0	114.6	115.6	117.7
2000	107.3	108.0	119.3	120.1	112.9	113.9	115.7
2500	104.5	105.3	116.3	117.0	111.2	112.2	113.7
3150	101.7	102.4	113.2	114.0	109.3	110.3	111.6
4000	98.8	99.4	110.1	110.7	107.4	108.2	109.3
5000	95.8	96.2	107.0	107.4	105.4	106.0	106.9
6300	92.6	92.9	103.7	104.0	103.2	103.6	104.4
8000	89.3	89.5	100.3	100.4	101.0	101.2	101.8
10000	85.9	85.9	96.7	96.7	98.5	98.5	99.1
12500	82.3	82.3	93.1	93.1	95.9	95.9	96.5
16000	78.5	78.5	89.5	89.5	93.1	93.1	93.8
20000	74.4	74.4	85.6	85.6	90.1	90.1	91.0
25000	70.2	70.2	81.5	81.5	86.8	86.8	87.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111D AFTERBURNER POWER
97 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-511-101-180276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB

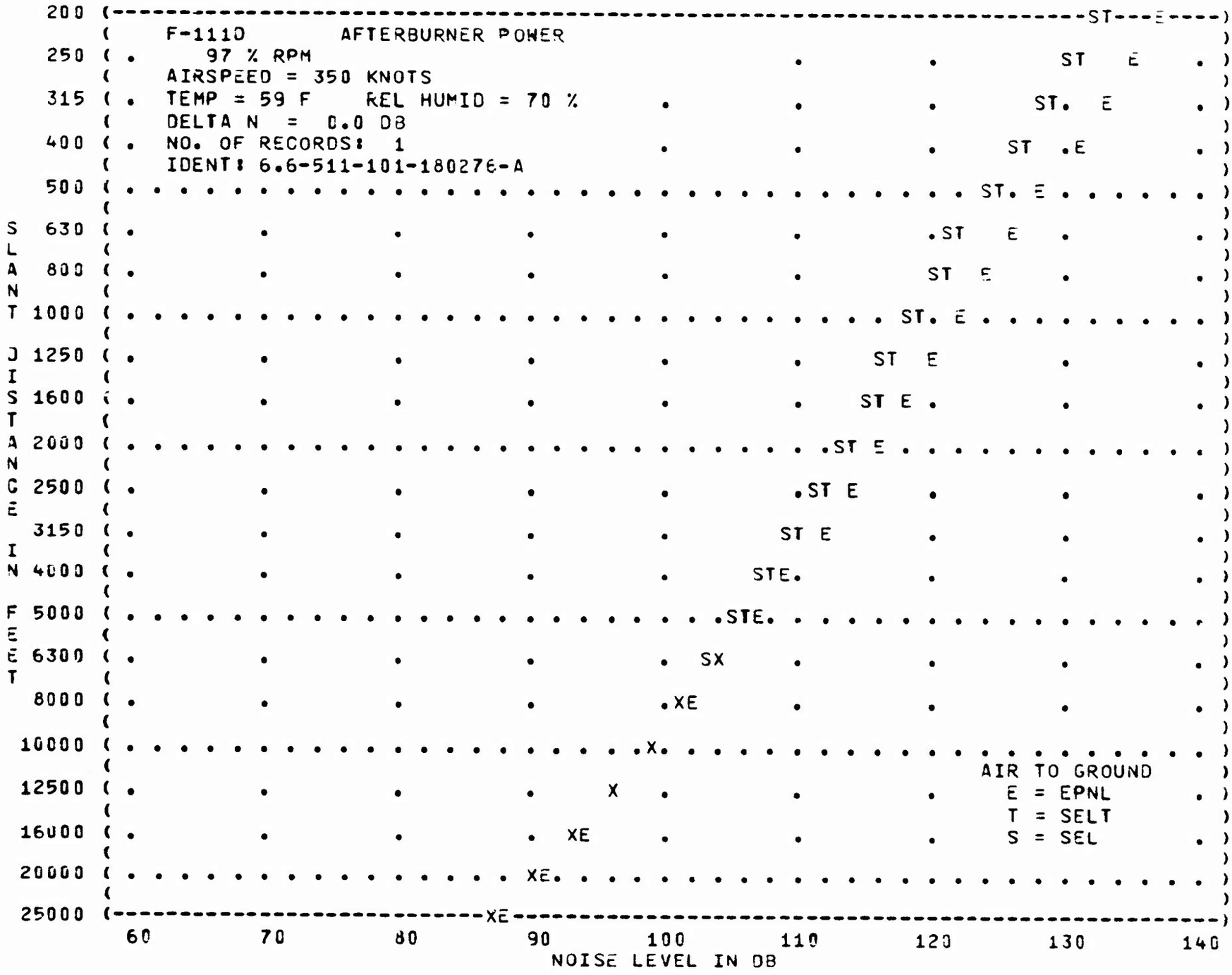

F-1110 AFTERBURNER POWER
97 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-511-101-180276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6 6

AIRCRAFT: F-111D

OPERATION:
AFTERBURNER POWER
97 % RPM
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 511
OPS CODE: 101
PROFILE VER: A
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PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	105	103	101	113	120	122	118	116	121	117	118	117	116	114	114	115	115	114	114	115	115	117	123	132
250	103	101	99	111	118	120	116	114	119	115	116	115	114	112	112	113	113	112	112	113	112	115	120	128
315	101	99	97	109	116	118	114	112	117	112	114	113	112	110	110	110	110	109	110	110	109	112	117	124
400	99	97	95	107	114	115	112	110	115	110	112	111	110	108	108	108	108	107	107	107	106	108	113	119
500	97	95	93	105	111	113	110	108	113	108	110	109	107	106	106	106	106	104	104	104	103	105	109	114
630	95	93	91	103	109	110	107	105	110	106	108	107	105	104	103	103	103	102	102	101	100	101	104	108
800	93	91	89	100	106	108	104	102	108	104	106	105	103	101	101	101	101	99	99	98	96	96	98	101
1000	91	89	87	97	103	105	101	99	106<	102	104	103	101	99	99	98	98	96	95	94	92	91	92	92
1250	89	87	84	94	100	101	98	96	103	100	101	100	98	97	96	96	95	93	92	90	87	85	84	82
1600	87	84	80	91	97	98	95	93	100	98	99	98	96	94	93	93	92	89	87	85	82	78	75	69
2000	84	80	77	87	93	94	91	89	96	95	97	96	93	91	90	90	88	85	83	79	75	70	64	54
2500	80	76	73	83	88	90	86	84	92	92	94	93	91	88	87	86	85	81	77	72	68	61	51	35
3150	76	72	68	78	84	85	81	79	88	87	91	90	86	85	84	82	80	76	71	64	59	49	34	13
4000	72	67	63	72	78	79	76	74	83	83	87	87	85	82	80	78	75	70	64	55	48	34	14	
5000	67	62	58	67	73	74	71	68	77	77	83	82	81	78	76	73	70	63	55	44	35	17		
6300	61	58	53	63	68	69	66	63	70	71	76	78	76	74	71	67	63	55	45	30	19			
8000	59	55	51	60	66	67	63	61	68	68	75	74	72	69	65	61	55	45	33	13	0			
10000	57	53	49	58	63	64	60	58	65	65	71	70	67	63	59	53	46	33	17					
12500	55	51	46	56	61	62	58	55	61	61	67	66	62	57	51	44	34	19						
16000	53	49	44	53	58	59	54	51	57	57	62	59	55	49	42	32	20	2						
20000	50	46	41	50	55	56	51	48	53	52	56	53	47	40	31	19	4							
25000	48	44	39	48	52	52	47	43	48	46	50	45	38	29	18	2								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-111D

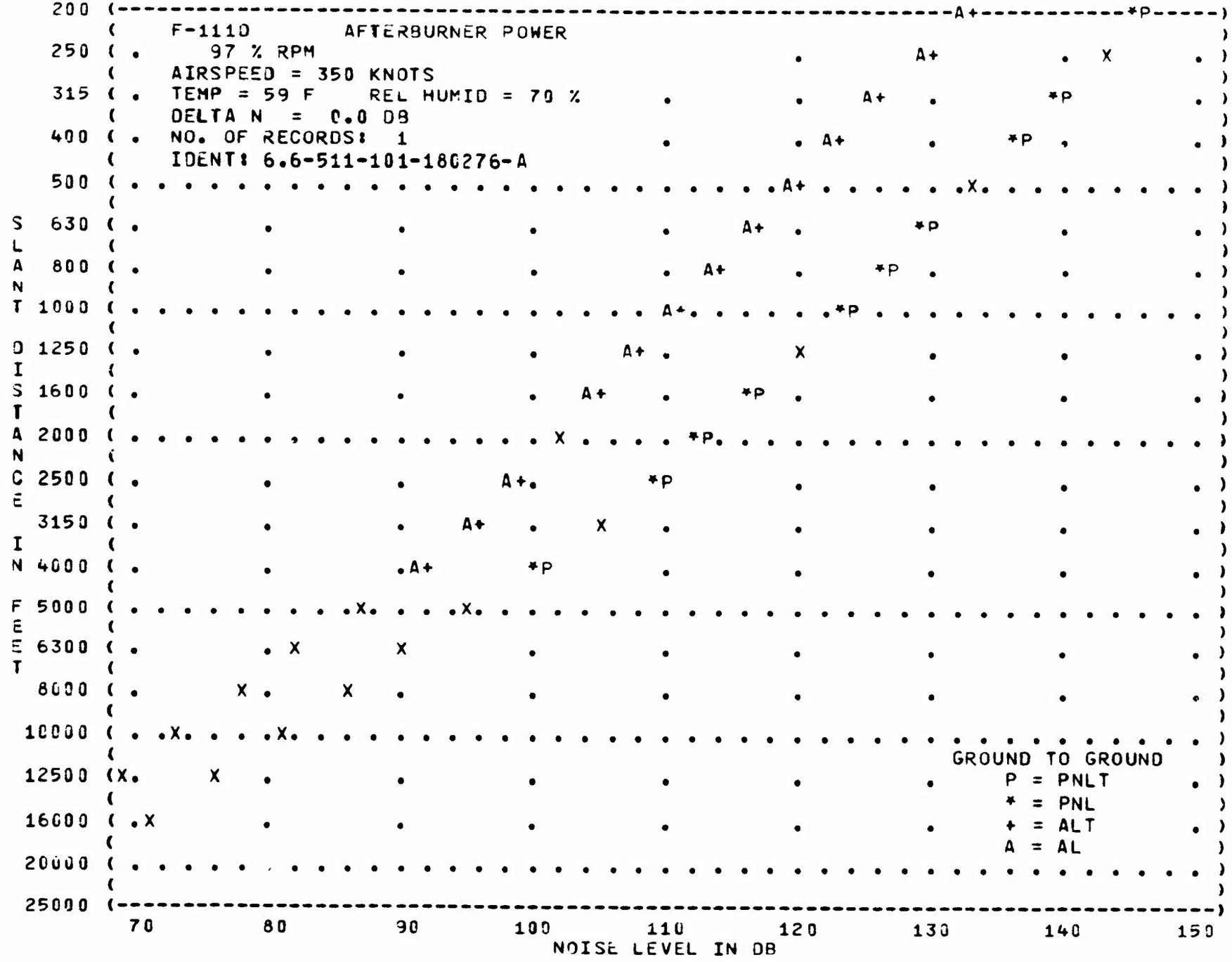
OPERATION: AFTERBURNER POWER, 97 % RPM, AIRSPEED = 350 KNOTS

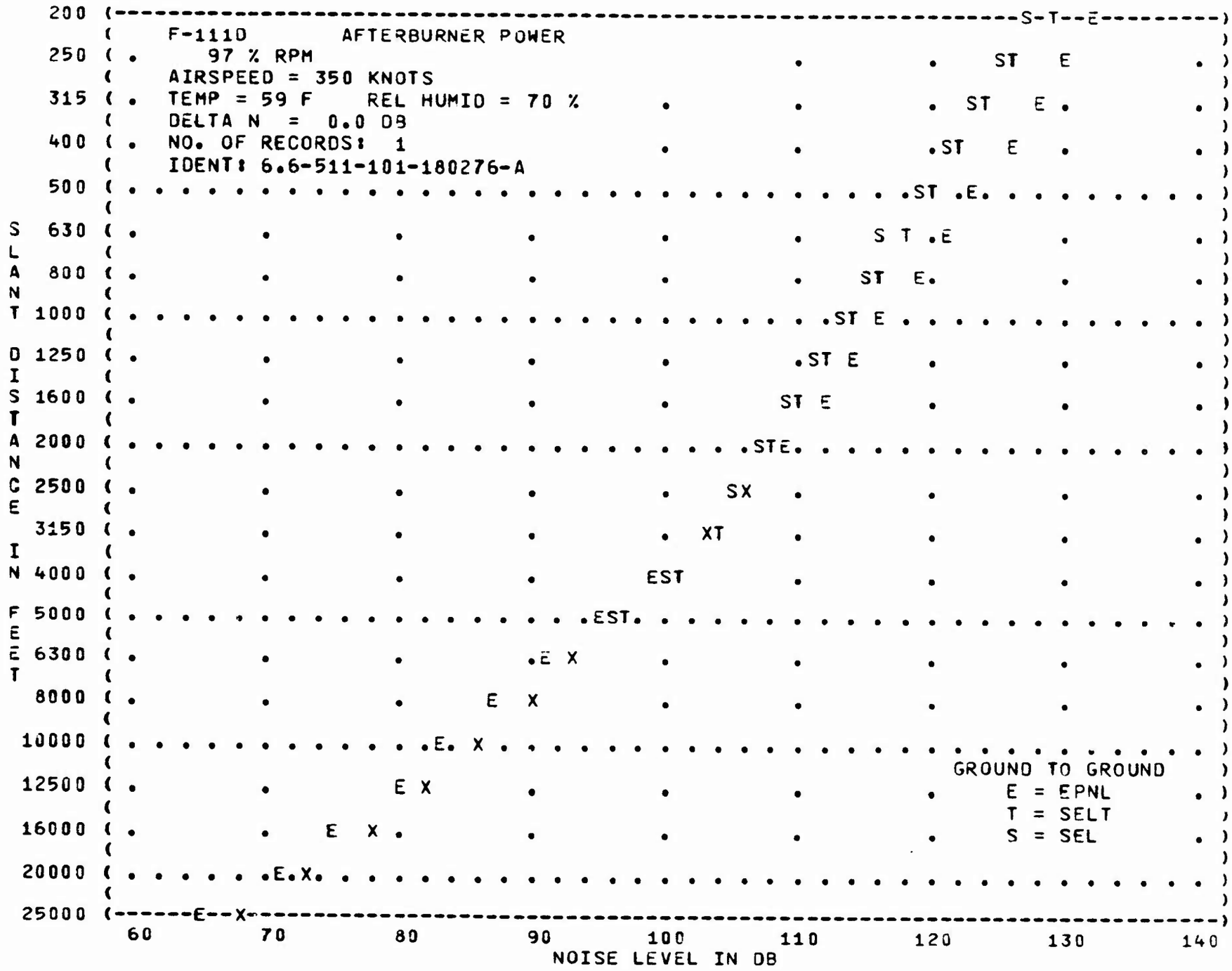
METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

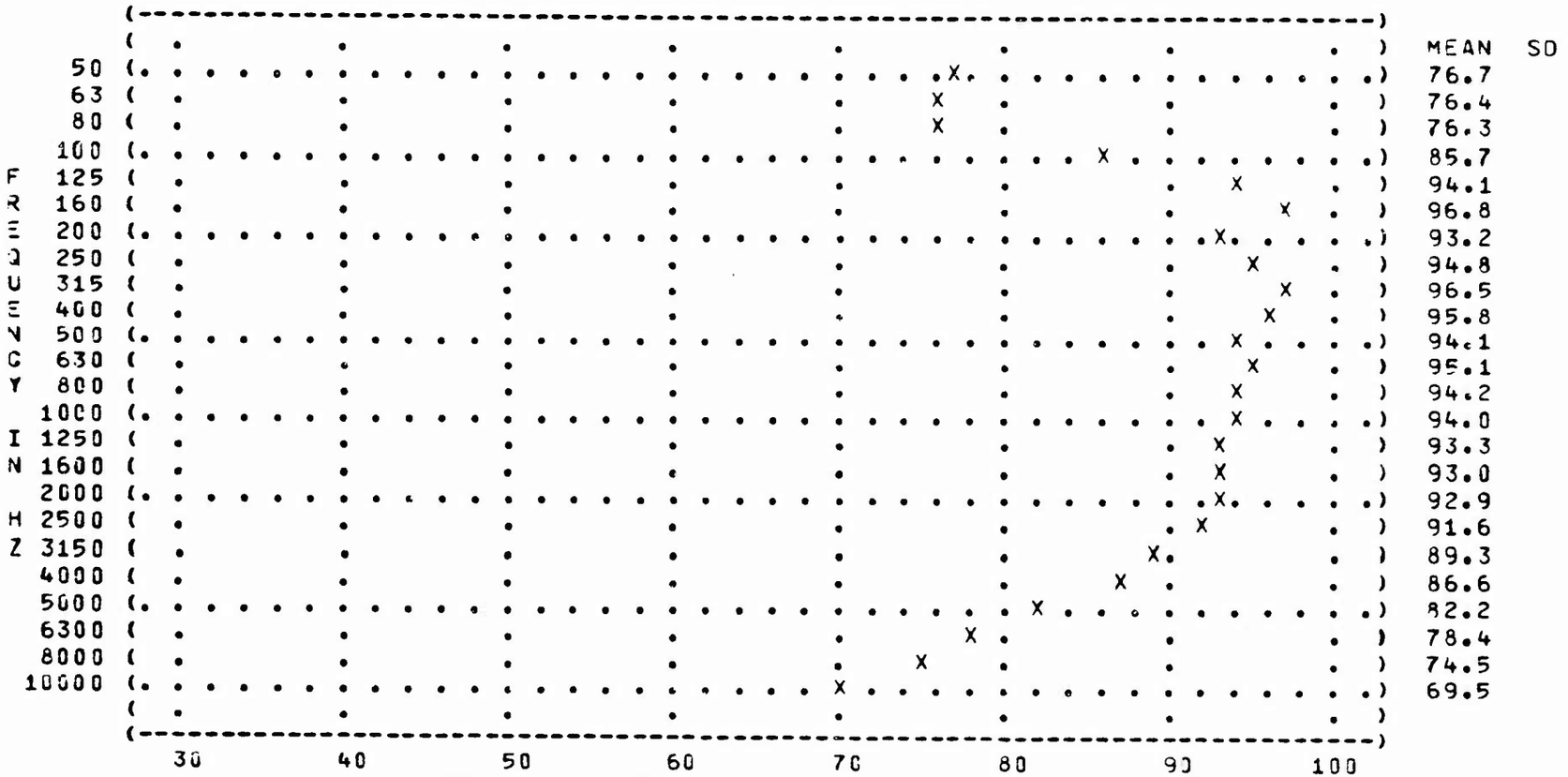
A/C CODE: 511
OPS CODE: 101
PROFILE VER: A
18 FEB 76
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	131.7	132.6	145.5	146.4	127.3	128.5	132.0
250	128.6	129.5	142.6	143.5	125.3	126.4	130.1
315	125.4	126.3	139.5	140.4	123.1	124.2	128.0
400	122.2	123.1	136.1	137.0	120.8	121.9	125.7
500	118.9	119.8	132.6	133.5	118.5	119.7	123.1
630	115.8	116.7	129.2	130.1	116.4	117.6	120.8
800	112.9	113.8	126.2	127.1	114.5	115.7	118.7
1000	110.1	111.0	122.9	123.8	112.7	113.9	116.4
1250	107.3	108.2	119.5	120.4	111.0	112.1	114.1
1600	104.5	105.4	116.0	116.9	109.1	110.3	111.6
2000	101.6	102.5	112.5	113.4	107.2	108.4	109.0
2500	98.4	99.3	108.8	109.7	105.1	106.2	106.3
3150	95.0	95.9	104.6	105.5	102.6	103.8	103.1
4000	91.1	91.9	99.9	100.7	99.8	100.7	99.2
5000	86.8	87.3	94.9	95.5	96.4	97.1	95.0
6300	82.1	82.5	89.7	90.1	92.8	93.2	90.5
8000	77.9	78.1	85.5	85.7	89.6	89.8	87.1
10000	73.4	73.4	81.1	81.1	86.0	86.0	83.4
12500	68.5	68.5	76.3	76.3	82.1	82.1	79.7
16000	63.1	63.1	71.1	71.1	77.8	77.8	75.4
20000	57.3	57.3	65.3	65.3	72.9	72.9	70.7
25000	51.0	51.0	58.8	58.8	67.6	67.6	65.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-1110 AFTERBURNER POWER
97 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-511-101-180276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-1110 AFTERBURNER POWER
97 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-511-101-180276-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB



F-111D TAKEOFF POWER 97 % RPM

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-511-103-180276

PNLT = 116.5 PNDB
PNL = 116.0 PNDB
ALT = 104.1 DBA
AL = 103.5 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111D

OPERATION:
TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 511
OPS CODE: 103
PROFILE VER: A
18 FEB 76
PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	91	90	90	100	108	111	107	109	111	110	109	110	109	109	109	109	110	109	108	108	104	104	105	108
250	89	88	88	98	106	109	105	107	109	108	107	108	107	107	107	107	108	107	106	105	102	101	102	105
315	87	86	86	96	104	107	103	105	107	106	105	106	105	105	105	105	105	105	104	103	99	98	99	101
400	85	84	84	94	102	105	101	103	105	104	103	104	103	103	103	103	103	102	101	100	96	95	95	96
500	83	82	82	92	100	103	99	101	103	102	101	102	101	101	100	100	101	100	98	97	93	92	91	91
630	81	80	80	90	98	101	97	99	101	100	98	99	99	99	98	98	98	97	96	94	90	88	86	85
800	79	78	78	88	96	99	95	97	99	98	96	97	96	96	96	96	96	95	93	90	86	83	81	78
1000	77	76	76	86	94	97<	93	95	97	96	94	95	94	94	93	93	93	92	89	87	82	78	75	70
1250	75	74	74	84	92	95	91	93	94	94	92	93	92	92	91	90	90	88	86	82	78	73	67	59
1600	73	72	72	82	90	93	89	91	92	91	90	90	89	89	88	87	87	85	82	78	72	66	58	47
2000	71	70	70	80	88	91	87	88	90	89	87	88	87	86	85	84	83	81	77	72	66	58	47	33
2500	69	68	68	77	86	88	85	86	88	87	85	86	84	83	82	81	80	77	72	65	59	48	35	15
3150	67	66	66	75	84	86	82	84	85	84	82	83	81	80	79	77	75	72	66	58	50	37	19	
4000	64	64	64	73	81	84	80	82	83	82	80	80	78	77	75	73	71	66	59	49	40	23		
5000	62	62	62	71	79	82	78	79	80	79	77	77	75	73	71	68	65	59	50	38	27	6		
6300	60	60	60	69	77	79	75	77	78	76	74	74	71	69	66	63	58	51	40	24	12			
8000	58	58	57	67	75	77	73	74	75	73	70	70	67	64	61	56	51	42	28	8				
10000	56	55	55	64	72	74	70	71	72	70	67	66	62	59	54	48	42	30	13					
12500	54	53	53	62	70	72	67	68	69	66	62	61	57	53	47	39	31	16						
16000	52	51	50	59	67	69	64	65	65	62	58	56	50	45	38	29	17							
20000	49	48	48	57	64	66	61	61	61	57	52	49	43	36	27	15	1							
25000	47	46	45	54	61	62	57	57	56	52	46	42	34	26	14									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111D

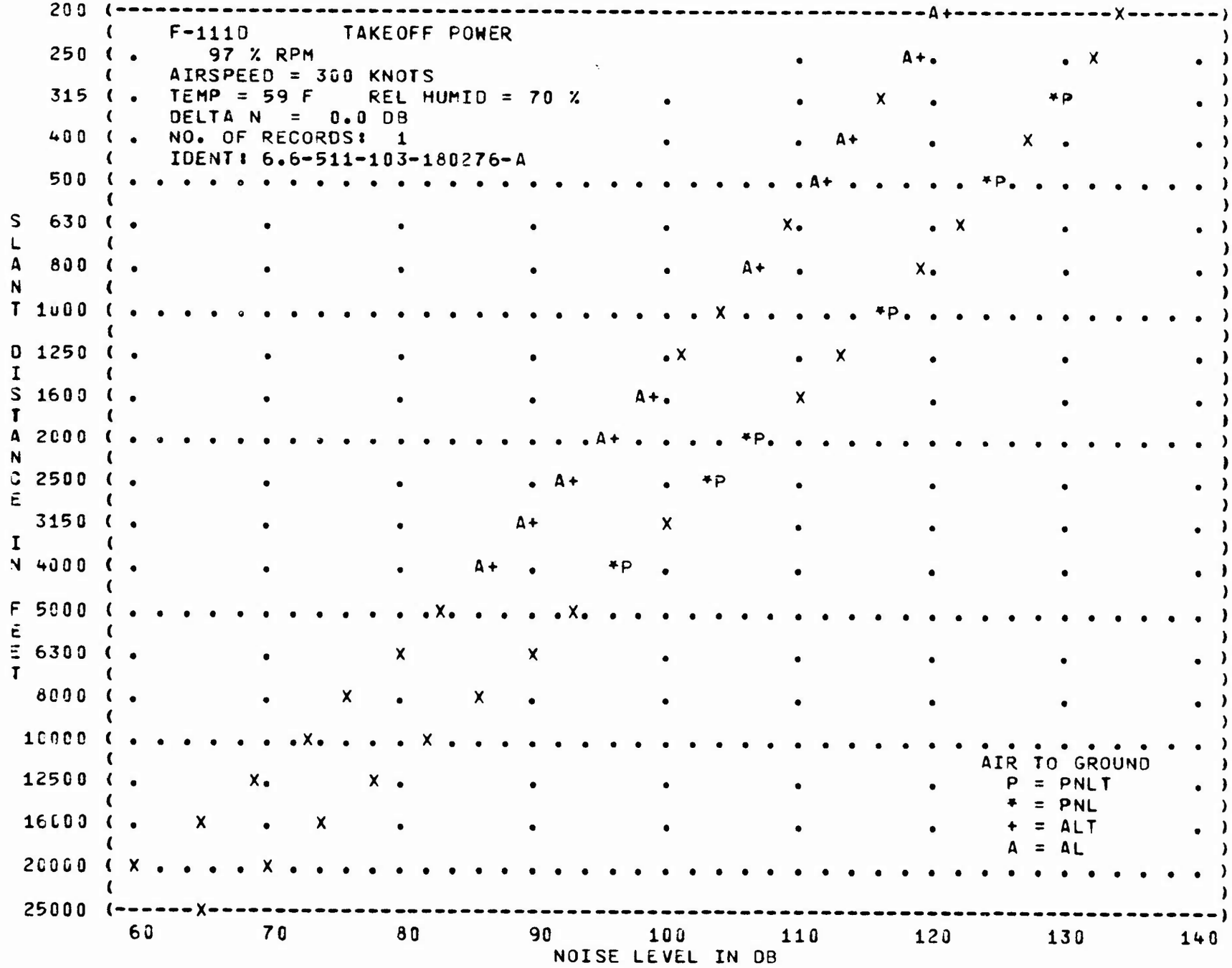
OPERATION:
TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 511
OPS CODE: 103
PROFILE VER: A
18 FEB 76
PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	120.2	120.8	133.8	134.3	120.3	121.4	123.7
250	118.0	118.5	131.5	132.0	119.0	120.1	122.4
315	115.7	116.2	129.2	129.7	117.8	118.9	121.1
400	113.4	113.9	126.7	127.3	116.4	117.5	119.6
500	111.0	111.5	124.2	124.7	115.1	116.2	118.1
630	108.6	109.1	121.6	122.1	113.6	114.7	116.5
800	106.1	106.6	118.9	119.4	112.1	113.2	114.8
1000	103.5	104.1	116.0	116.5	110.6	111.7	112.9
1250	100.9	101.4	113.0	113.5	109.0	110.1	110.9
1600	98.2	98.7	109.8	110.3	107.3	108.4	108.7
2000	95.4	95.9	106.5	107.0	105.5	106.6	106.4
2500	92.5	93.0	103.0	103.6	103.6	104.7	103.9
3150	89.5	90.0	99.7	100.3	101.5	102.6	101.6
4000	86.4	86.8	96.5	96.9	99.4	100.3	99.2
5000	83.1	83.4	93.1	93.4	97.2	97.8	96.6
6300	79.7	80.0	89.7	89.9	94.8	95.2	93.9
8000	76.2	76.3	86.1	86.2	92.3	92.5	91.1
10000	72.6	72.6	82.3	82.3	89.6	89.6	88.1
12500	68.7	68.7	78.3	78.3	86.8	86.8	85.1
16000	64.7	64.7	74.0	74.0	83.8	83.8	81.8
20000	60.5	60.5	69.6	69.6	80.5	80.5	78.4
25000	56.0	56.0	65.0	65.0	77.1	77.1	74.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-1110 TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-511-103-180276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

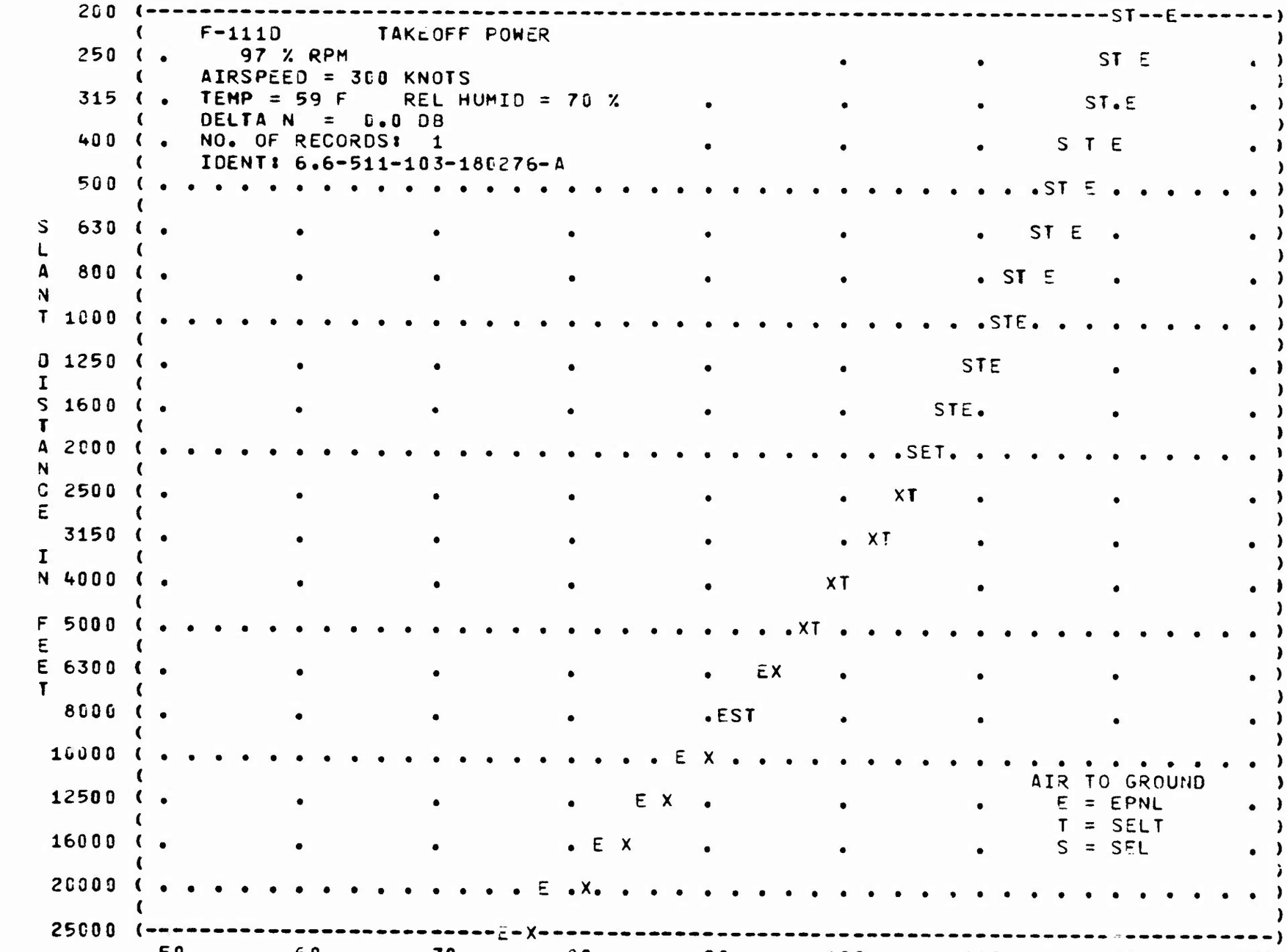

F-111D TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-511-103-180276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 511
OPS CODE: 103
PROFILE VER: A
18 FEB 76
PAGE L2

AIRCRAFT: F-111D

OPERATION:
TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	86	85	85	95	103	106	102	104	106	105	104	105	104	104	104	104	105	104	103	103	99	99	100	103
250	84	83	83	93	101	104	100	102	104	103	102	103	102	102	102	102	103	102	101	100	97	96	97	100
315	82	81	81	91	99	102	98	100	102	101	100	101	100	100	100	100	100	100	99	98	94	93	94	96
400	80	79	79	89	97	100	96	98	100	99	98	99	98	98	98	98	98	97	96	95	91	90	90	91
500	78	77	77	87	95	97	94	96	98	97	96	97	96	96	95	95	96	95	93	92	88	87	86	86
630	76	75	75	85	92	95	91	93	96	95	93	94	94	94	93	93	93	92	91	89	85	83	81	80
800	74	73	73	82	90	92	88	91	94	93	91	92	91	91	91	91	91	90	88	85	81	78	76	73
1000	72	71	71	79	87	89	85	88	91	91	89	90	89	89	88	88	88	87	84	82	77	73	70	65
1250	70	69	68	76	84	86	82	84	88	89	87	88	87	87	86	85	85	83	81	77	73	68	62	54
1600	68	66	65	73	80	82	79	81	85	86	85	85	84	84	83	82	82	80	77	73	67	61	53	42
2000	65	63	61	69	76	79	75	77	82	84	82	83	82	81	80	79	78	76	72	67	61	53	42	28
2500	61	59	57	65	72	74	71	72	78	80	80	81	79	78	77	76	75	72	67	60	54	43	30	10
3150	57	54	52	60	67	69	66	67	73	76	76	78	76	75	74	72	70	67	61	53	45	32	14	
4000	53	49	47	54	62	64	60	62	68	71	72	74	73	72	70	68	66	61	54	44	35	18		
5000	47	44	42	50	57	59	55	57	62	66	68	70	69	68	66	63	60	54	45	33	22	1		
6300	42	40	38	45	52	54	50	52	56	60	64	66	65	64	61	58	53	46	35	19	7			
8000	40	38	35	43	50	51	47	49	53	57	60	62	61	59	56	51	46	37	23	3				
10000	38	35	33	40	47	49	45	46	50	54	57	58	56	54	49	43	37	25	8					
12500	36	33	31	38	45	46	42	43	47	50	52	53	51	48	42	34	26	11						
16000	34	31	28	35	42	43	39	40	43	46	46	48	44	40	33	24	12							
20000	31	28	26	33	39	40	35	36	39	41	42	41	37	31	22	10								
25000	29	26	23	30	36	37	32	32	34	36	36	34	28	21	9									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-111D

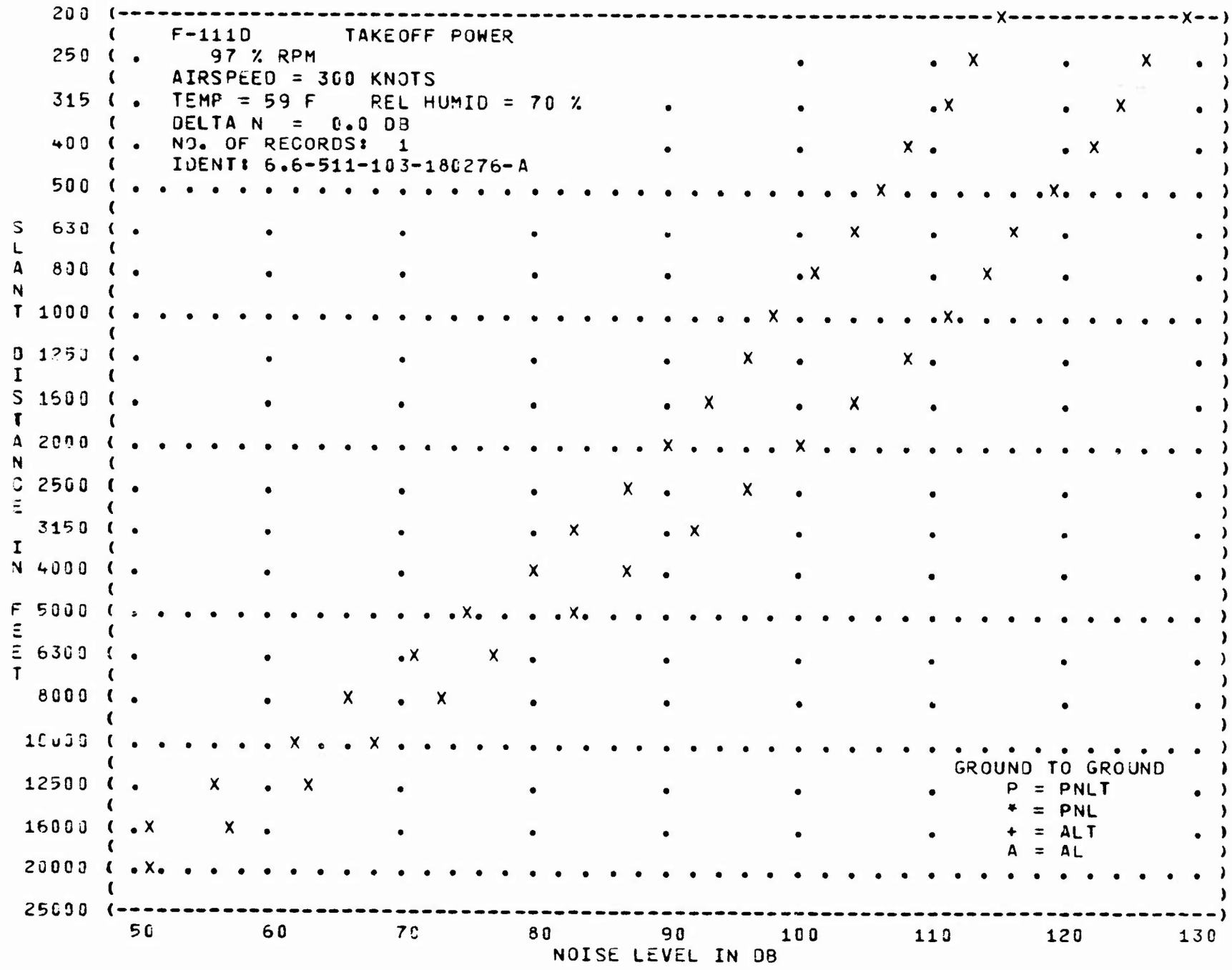
OPERATION:
TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS

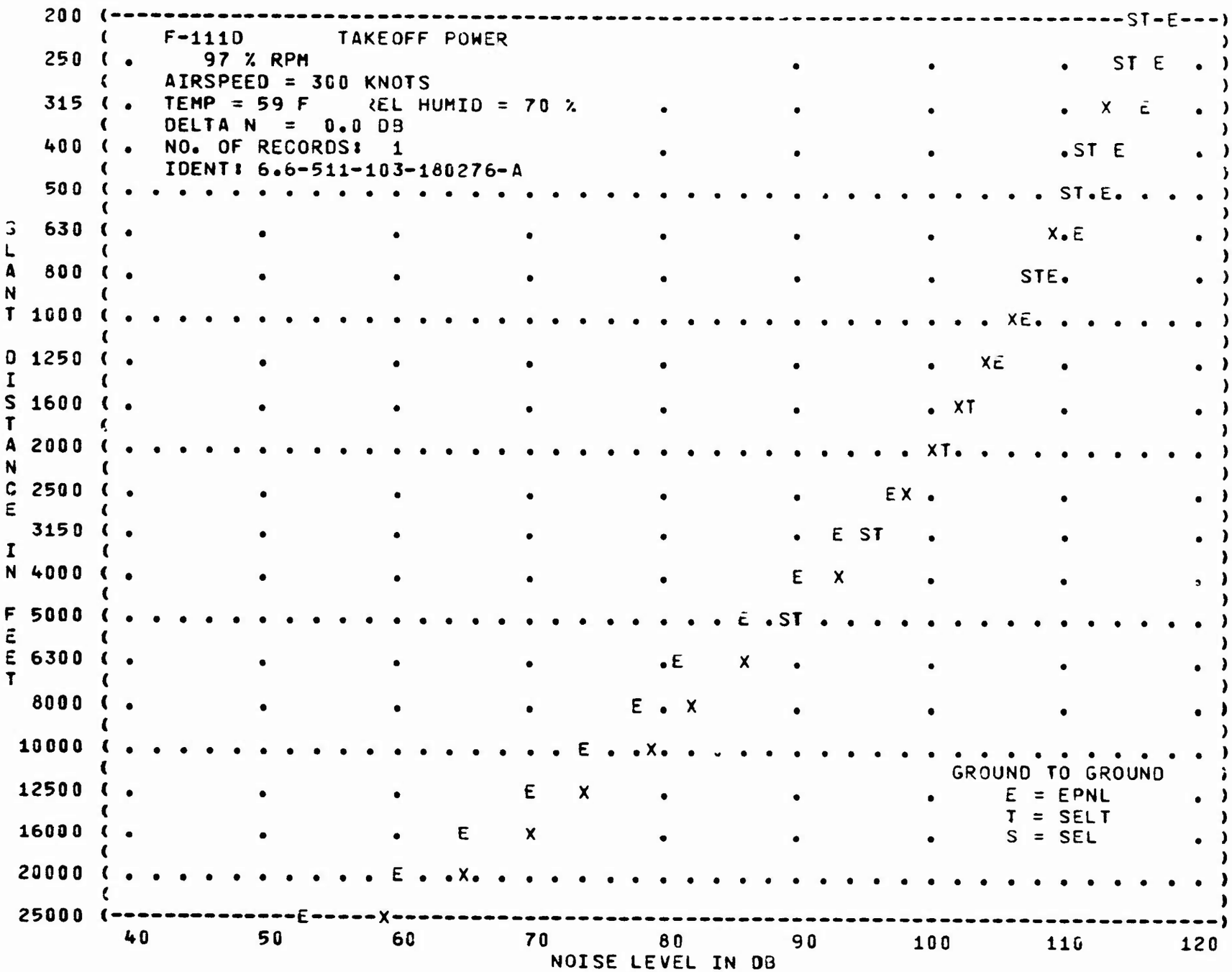
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

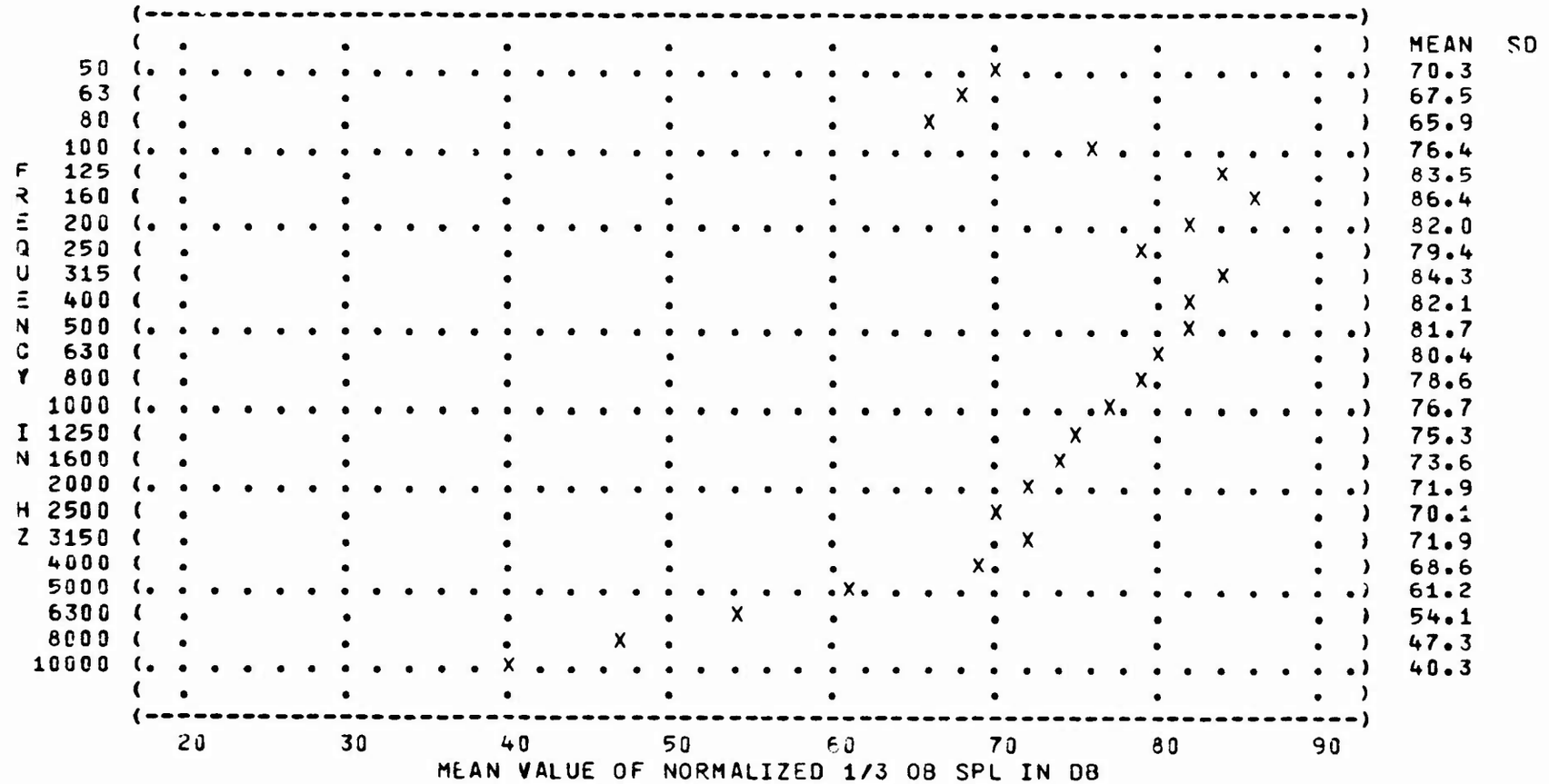
A/C CODE: 511
OPS CODE: 103
PROFILE VER: A
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PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	115.2	115.2	128.8	128.8	115.3	115.9	118.2
250	113.0	113.0	126.5	126.5	114.0	114.6	116.9
315	110.7	110.7	124.1	124.1	112.8	113.3	115.5
400	108.4	108.4	121.7	121.7	111.4	112.0	114.1
500	106.0	106.0	119.2	119.2	110.0	110.6	112.6
630	103.5	103.5	116.5	116.5	108.6	109.2	110.9
800	101.0	101.0	113.7	113.7	107.1	107.7	109.1
1000	98.5	98.5	110.7	110.7	105.5	106.1	107.1
1250	95.8	95.8	107.5	107.5	103.8	104.4	104.9
1600	93.0	93.0	104.1	104.1	102.0	102.6	102.4
2000	90.0	90.0	100.5	100.5	100.1	100.7	99.8
2500	86.9	86.9	96.5	96.5	97.9	98.5	96.9
3150	83.4	83.4	92.1	92.1	95.5	96.0	93.5
4000	79.6	79.6	87.5	87.5	92.7	93.1	89.7
5000	75.3	75.3	82.5	82.5	89.4	89.7	85.7
6300	70.7	70.7	77.3	77.3	85.7	86.0	81.3
8000	66.3	66.3	72.8	72.8	82.4	82.5	77.7
10000	61.6	61.6	68.0	68.0	78.6	78.6	73.8
12500	56.4	56.4	62.8	62.8	74.5	74.5	69.6
16000	50.8	50.8	57.0	57.0	69.9	69.9	64.8
20000	44.8	44.8	50.7	50.7	64.8	64.8	59.5
25000	38.2	38.2	43.3	43.3	59.3	59.3	53.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111D TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-511-103-180276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-111D TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-511-103-180276-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



F-111D APPROACH POWER 81 % RPM

AIRSPEED = 150 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-511-105-180276

PNLT = 99.7 PNDB
PNL = 99.1 PNDB
ALT = 88.0 DBA
AL = 87.4 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-111D

OPERATION:
APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 511
OPS CODE: 105
PROFILE VER: A
18 FEB 76
PAGE H3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	84	82	80	91	98	101	96	94	99	97	96	95	94	92	91	90	89	88	91	90	83	80	78	79
250	82	80	78	89	96	99	94	92	97	95	94	93	92	90	89	88	87	86	89	87	81	77	75	76
315	80	78	76	87	94	97	92	90	95	93	92	91	90	88	87	85	84	83	86	85	78	74	72	72
400	78	76	74	84	92	95	90	88	93	91	90	89	87	86	85	83	82	81	84	82	75	71	68	67
500	76	74	72	82	90	93	88	86	91	88	88	87	85	84	82	81	80	78	81	79	72	67	64	62
630	74	72	70	80	88	90	86	84	88	86	86	85	83	81	80	79	77	76	78	76	69	64	59	56
800	72	70	68	78	86	88	84	81	86	84	84	83	81	79	78	76	75	73	75	72	65	59	54	49
1000	70	68	66	76	84	86<	82	79	84	82	82	80	79	77	75	74	72	70	72	69	61	54	47	40
1250	68	65	64	74	81	84	80	77	82	80	79	78	76	74	73	71	69	67	68	64	57	48	40	30
1600	66	63	62	72	79	82	78	75	80	78	77	76	74	72	70	68	66	63	64	59	51	42	31	18
2000	64	61	60	70	77	80	76	73	78	75	75	73	71	69	67	65	62	60	60	54	45	34	20	3
2500	62	59	58	68	75	78	73	71	76	73	72	71	69	66	64	61	59	55	54	47	38	24	7	
3150	60	57	56	66	73	76	71	69	73	71	70	68	66	63	61	58	54	50	48	40	29	12		
4000	58	55	54	64	71	74	69	66	71	68	67	65	63	60	57	53	49	44	41	30	18			
5000	56	53	51	62	69	71	67	64	68	65	64	62	59	56	53	49	44	38	33	19	6			
6300	54	51	49	60	66	69	64	61	66	63	61	59	55	52	48	43	37	30	23	6				
8000	52	49	47	57	64	67	62	59	63	59	58	55	51	47	43	37	30	20	11					
10000	50	47	45	55	62	64	59	56	60	56	54	51	47	42	36	29	20	9						
12500	47	44	42	53	59	61	56	53	56	52	50	46	41	35	29	20	9							
16000	45	42	40	50	56	58	53	49	53	48	45	41	35	28	20	9								
20000	43	40	38	47	54	55	50	46	49	43	40	34	27	19	9									
25000	40	37	35	45	51	52	46	41	44	38	33	27	18	8										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-111D

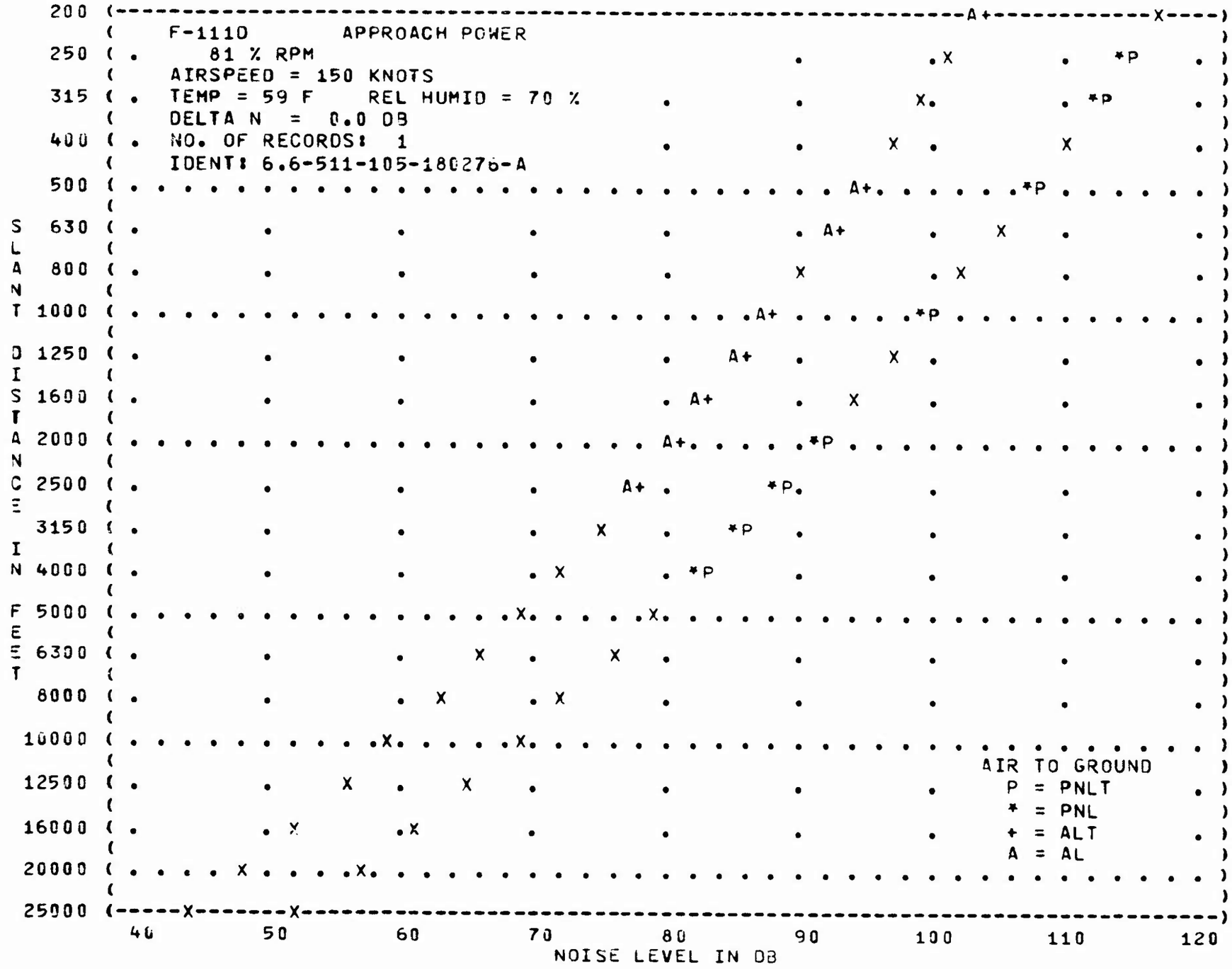
OPERATION:
APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 511
OPS CODE: 105
PROFILE VER: A
18 FEB 76
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	103.0	103.6	116.5	117.1	103.6	105.0	109.7
250	100.9	101.5	114.3	114.9	102.5	103.9	108.4
315	98.7	99.3	111.9	112.6	101.3	102.7	107.1
400	96.5	97.1	109.6	110.2	100.1	101.5	105.7
500	94.3	94.9	107.1	107.7	98.9	100.3	104.3
630	92.0	92.6	104.5	105.1	97.7	99.1	102.7
800	89.7	90.3	101.8	102.4	96.4	97.8	101.0
1000	87.4	88.0	99.1	99.7	95.0	96.4	99.3
1250	85.0	85.6	96.5	97.1	93.6	95.0	97.7
1600	82.5	83.1	93.9	94.5	92.1	93.5	96.0
2000	80.0	80.6	91.1	91.7	90.6	92.0	94.3
2500	77.4	78.0	88.3	88.9	89.0	90.4	92.4
3150	74.7	75.3	85.3	85.9	87.3	88.7	90.5
4000	71.9	72.4	82.2	82.7	85.5	86.7	88.2
5000	69.0	69.4	79.1	79.4	83.6	84.5	85.7
6300	66.0	66.2	75.8	76.0	81.6	82.1	83.1
8000	62.8	62.9	72.3	72.4	79.4	79.7	80.4
10000	59.4	59.4	68.6	68.6	77.0	77.0	77.4
12500	55.8	55.8	64.8	64.8	74.5	74.5	74.6
16000	52.1	52.1	60.8	60.8	71.7	71.7	71.6
20000	48.1	48.1	56.6	56.6	68.7	68.7	68.4
25000	43.9	43.9	52.0	52.0	65.5	65.5	64.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-1110 APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-511-105-180276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

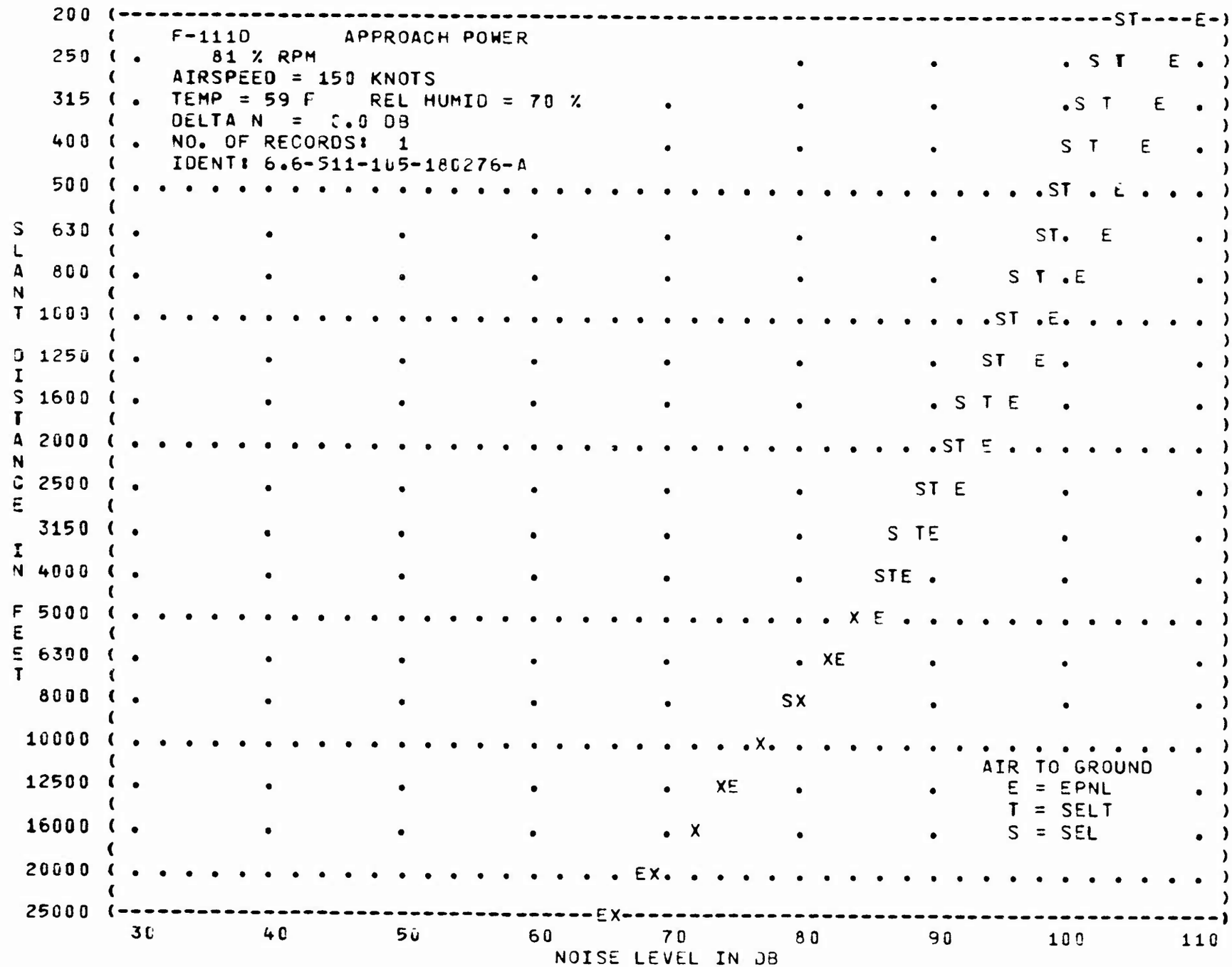

F-111D APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-511-105-180276-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-111D

OPERATION:
APPROACH POWER
81 % RPM

AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

DELTA N = 0.0 DB

A/C CODE: 511
OPS CODE: 105
PROFILE VER: A
18 FEB 76
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	79	77	75	86	93	96	91	89	94	92	91	90	89	87	86	85	84	83	86	85	78	75	73	74
250	77	75	73	84	91	94	89	87	92	90	89	88	87	85	84	83	82	81	84	82	76	72	70	71
315	75	73	71	82	89	92	87	85	90	88	87	86	85	83	82	80	79	78	81	80	73	69	67	67
400	73	71	69	79	87	89	85	83	88	86	85	84	82	81	80	78	77	76	79	77	70	66	63	62
500	71	69	67	77	84	87	83	80	86	83	83	82	80	79	77	76	75	73	76	74	67	62	59	57
630	69	67	65	75	82	84	80	78	83	81	81	80	78	76	75	74	72	71	73	71	64	59	54	51
800	67	65	63	73	79	82	77	75	81	79	79	78	76	74	73	71	70	68	70	67	60	54	49	44
1000	65	63	61	70	76	79	74	72	79<	77	77	75	74	72	70	69	67	65	67	64	56	49	42	35
1250	63	60	58	67	73	75	71	69	76	75	74	73	71	69	68	66	64	62	63	59	52	43	35	25
1600	61	57	54	64	70	72	68	65	73	73	72	71	69	67	65	63	61	58	59	54	46	37	26	13
2000	58	54	51	60	66	68	64	62	69	70	70	68	66	64	62	60	57	55	55	49	40	29	15	
2500	55	50	47	55	62	64	59	57	65	67	67	66	64	61	59	56	54	50	49	42	33	19	2	
3150	51	45	42	51	57	59	54	52	61	62	64	63	61	58	56	53	49	45	43	35	24	7		
4000	46	40	37	45	51	53	49	46	56	58	60	60	58	55	52	48	44	39	36	25	13			
5000	41	36	32	40	46	48	44	41	51	52	56	55	54	51	48	44	39	33	28	14	1			
6300	36	31	27	36	41	43	39	36	44	47	51	51	49	47	43	38	32	25	18	1				
8000	34	29	25	33	39	41	36	34	41	43	48	47	45	42	38	32	25	15	6					
10000	32	27	23	31	37	39	34	31	38	40	44	43	41	37	31	24	15	4						
12500	29	24	20	29	34	36	31	28	34	36	40	38	35	30	24	15	4							
16000	27	22	18	26	31	33	28	24	31	32	35	33	29	23	15	4								
20000	25	20	16	23	29	30	24	21	27	27	30	26	21	14	4									
25000	22	17	13	21	26	27	20	16	22	22	23	19	12	3										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-111D

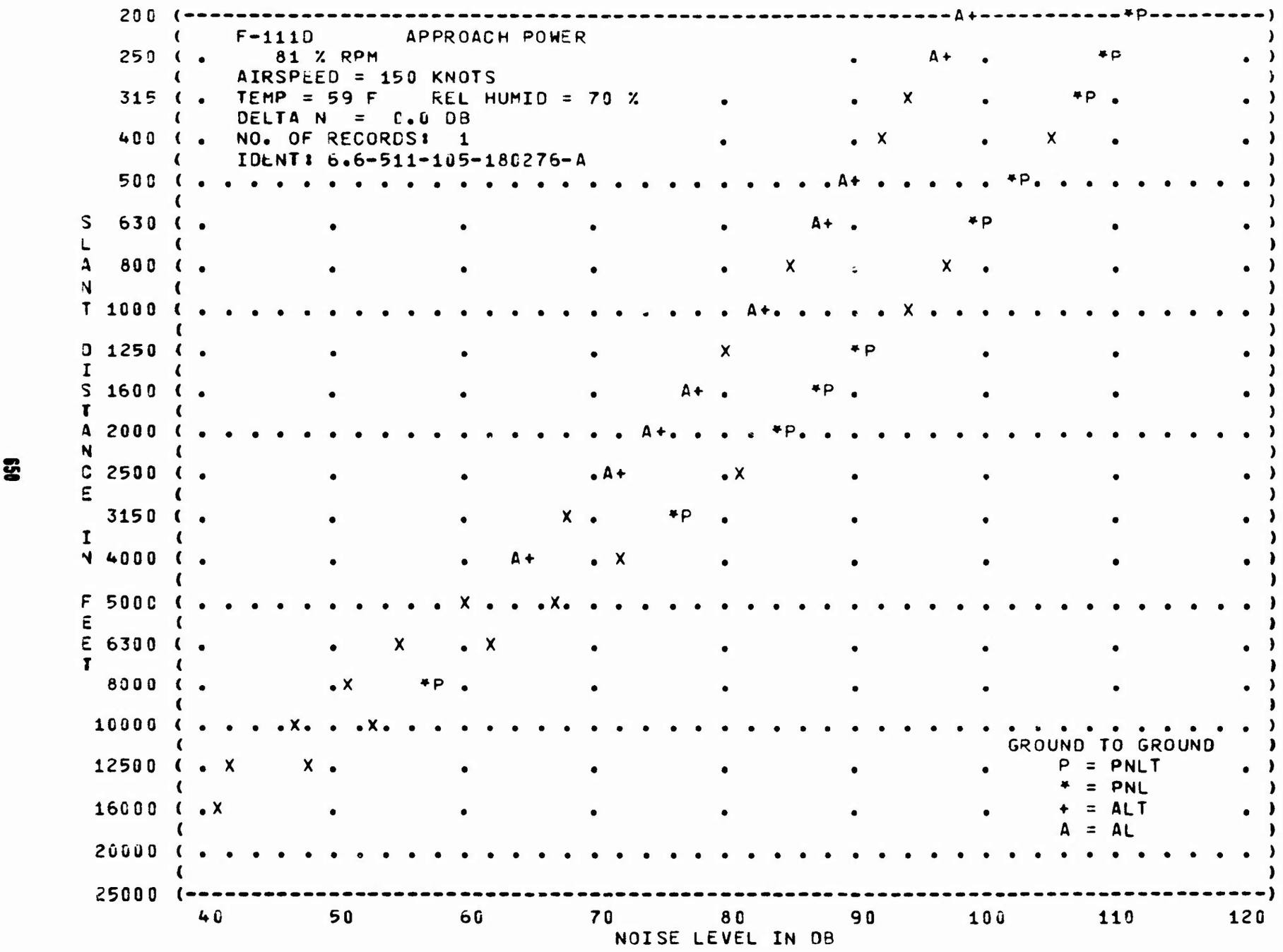
OPERATION:
APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS

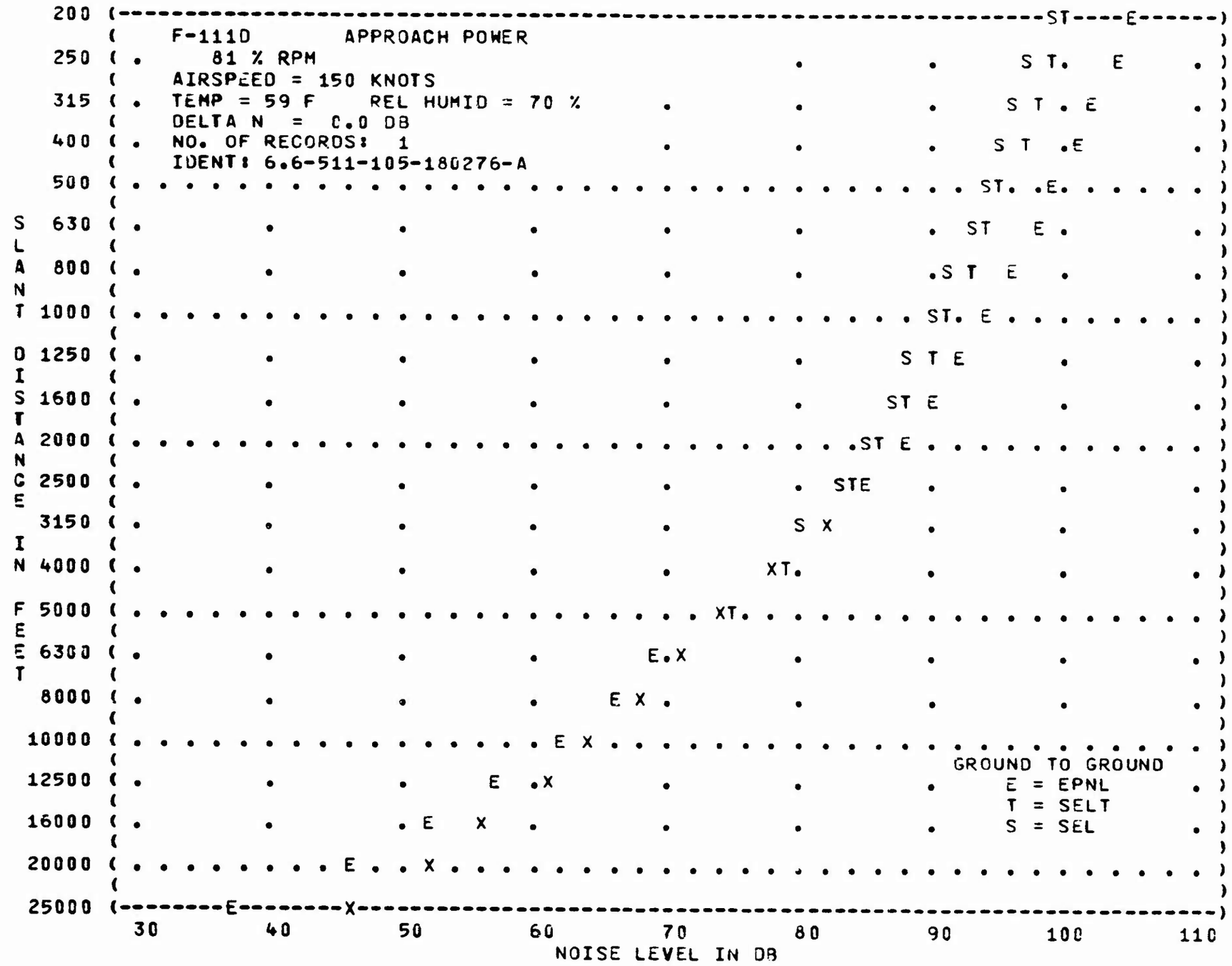
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

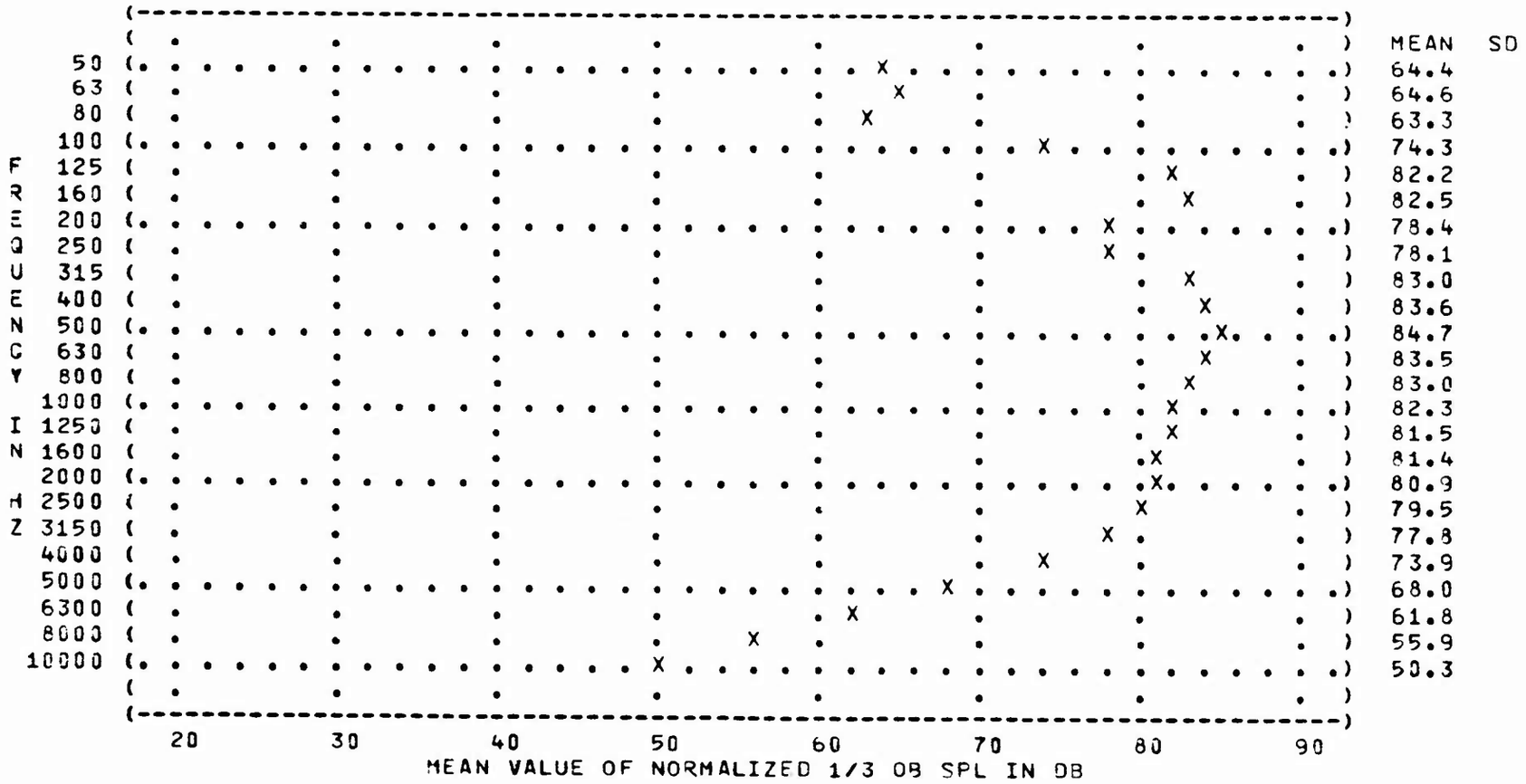
A/C CODE: 511
OPS CODE: 105
PROFILE VER: A
18 FEB 76
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	98.0	98.8	111.5	112.2	98.6	100.2	104.8
250	95.9	96.6	109.2	110.0	97.5	99.J	103.6
315	93.7	94.5	106.9	107.7	96.3	97.9	102.3
400	91.5	92.3	104.5	105.3	95.1	96.7	100.9
500	89.3	90.0	102.0	102.8	93.9	95.4	99.3
630	87.0	87.7	99.3	100.1	92.6	94.1	97.7
800	84.6	85.4	96.5	97.3	91.2	92.8	95.9
1000	82.2	82.9	93.6	94.3	89.8	91.3	93.9
1250	79.6	80.3	90.5	91.2	88.2	89.8	91.8
1600	76.9	77.7	87.5	88.2	86.6	88.1	89.8
2000	74.2	74.9	84.3	85.0	84.8	86.4	87.6
2500	71.1	71.9	80.6	81.3	82.7	84.3	84.9
3150	67.7	68.5	76.4	77.2	80.3	81.9	81.8
4000	63.9	64.5	71.9	72.5	77.5	78.8	77.9
5000	59.6	60.1	66.9	67.4	74.2	75.2	73.6
6300	55.0	55.3	61.7	62.0	70.7	71.3	69.1
8000	51.0	51.2	57.4	57.6	67.6	68.0	65.5
10000	46.6	46.6	52.7	52.7	64.3	64.3	61.5
12500	41.9	41.9	47.6	47.6	60.5	60.5	57.4
16000	36.7	36.7	41.3	41.3	56.3	56.3	52.1
20000	31.0	31.0	33.9	33.9	51.6	51.6	45.7
25000	24.9	24.9	23.8	23.8	46.5	46.5	36.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111D APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-511-105-180276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-111D APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-511-105-180276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-111D INTERMEDIATE POWER 86 % RPM

AIRSPEED = 350 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-511-106-180276

PNLT = 103.5 PNDB
PNL = 103.5 PNDB
ALT = 91.8 DBA
AL = 91.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

AIRCRAFT: F-111D

OPERATION: INTERMEDIATE POWER, 86 % RPM, AIRSPEED = 350 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

IDENTIFICATION: OMEGA 6.6, A/C CODE: 511, OPS CODE: 106, PROFILE VER: A, 18 FEB 76, PAGE H4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	78	79	77	88	96	97	93	92	97	98	99	98	98	98	97	98	98	97	97	95	90	88	87	90
250	76	77	75	86	94	95	91	90	95	96	97	96	96	96	95	95	96	95	95	93	88	85	84	86
315	74	75	73	84	92	93	89	88	93	94	95	94	94	93	93	93	93	93	92	90	85	82	81	82
400	72	73	71	82	90	91	87	86	91	92	93	92	92	91	91	91	91	90	90	87	82	79	77	77
500	70	71	69	80	88	89	85	84	89	90	91	90	90	89	89	89	89	88	87	84	79	75	73	72
630	68	69	67	78	86	87	83	82	87	88	89	88	88	87	86	86	86	85	84	81	76	71	68	66
800	66	67	65	76	84	85	80	80	85	86	87	86	85	85	84	84	84	82	81	78	72	67	62	59
1000	64	65	63	74	82	83	78	78	83	84	85	84	83	82	82	81	81	80	78	74	68	62	56	50
1250	62	63	61	72	80	80	76	76	81	81	82	81	81	80	79	79	78	76	74	70	63	56	48	40
1600	60	61	59	70	78	78	74	74	79	79	80	79	78	77	76	76	75	73	70	65	58	49	39	28
2000	58	58	57	68	76	76	72	72	76	77	78	76	76	75	73	73	71	69	66	59	52	41	28	13
2500	56	56	55	66	74	74	70	69	74	75	75	74	73	72	70	69	68	64	60	53	44	31	15	
3150	54	54	53	64	72	72	68	67	72	72	73	71	70	69	67	65	63	59	54	45	35	20		
4000	52	52	51	62	70	70	65	65	69	70	70	68	67	65	63	61	58	54	47	36	25	6		
5000	50	50	49	60	67	67	63	62	67	67	67	65	64	61	59	56	53	47	38	24	12			
6300	48	48	47	57	65	65	61	60	64	64	64	62	60	57	54	51	46	39	28	11				
8000	46	46	44	55	63	63	58	57	61	61	61	58	56	52	49	44	38	29	16					
10000	44	44	42	53	60	60	55	54	58	58	57	54	51	47	42	36	29	18	1					
12500	41	41	40	50	58	57	52	51	55	54	53	49	45	41	35	27	18	3						
16000	39	39	37	48	55	55	49	48	51	50	48	44	39	33	26	16	4							
20000	37	37	35	45	52	51	46	44	47	45	43	37	31	24	15	3								
25000	34	34	32	42	49	48	42	40	42	39	36	30	22	13	2									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-111D

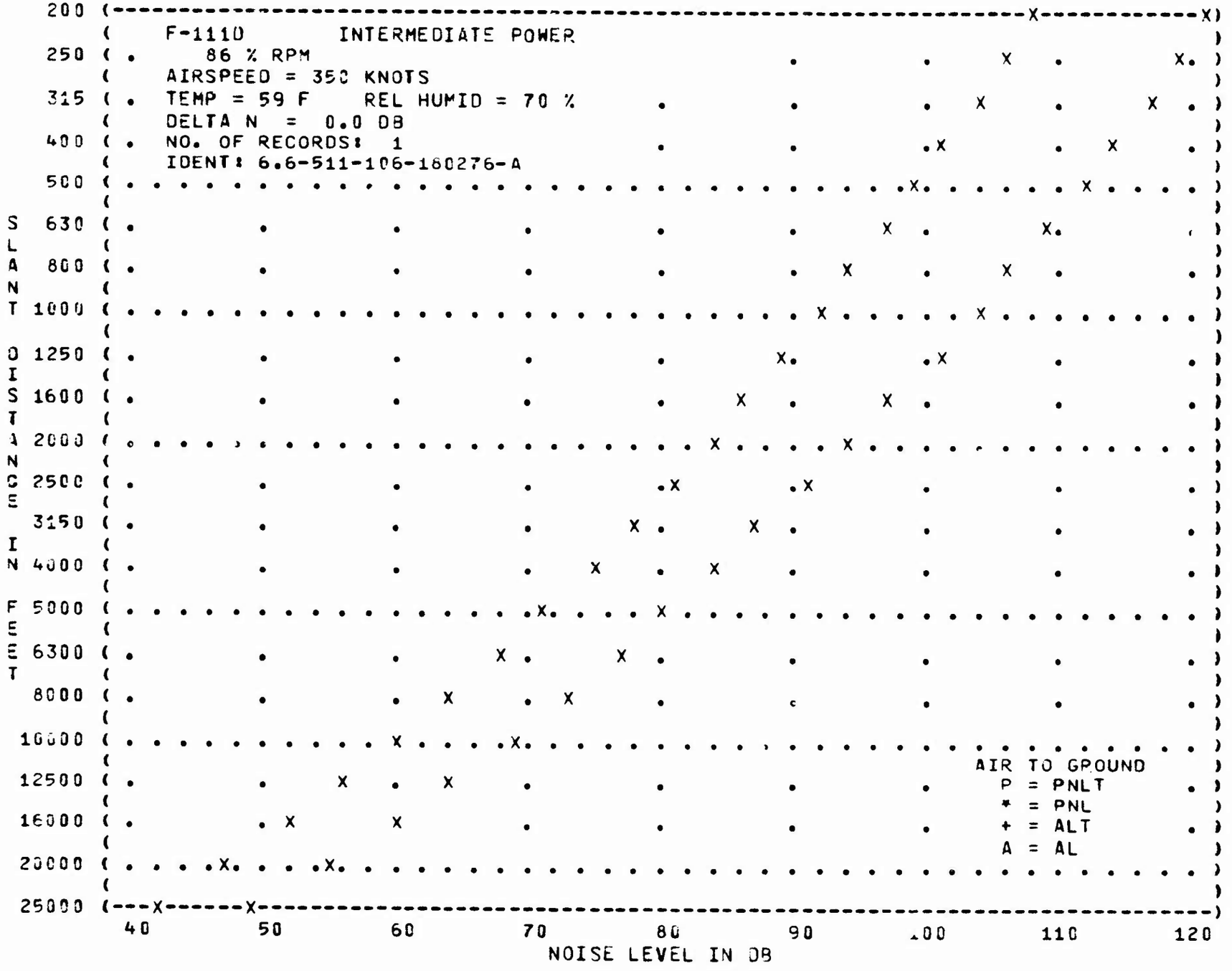
OPERATION:
INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 511
OPS CODE: 106
PROFILE VER: A
18 FEB 76
PAGE I4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	108.1	108.1	121.3	121.3	105.8	107.0	110.0
250	106.0	106.0	119.0	119.0	104.6	105.8	108.7
315	103.7	103.7	116.7	116.7	103.3	104.5	107.4
400	101.5	101.5	114.2	114.2	102.1	103.3	105.9
500	99.1	99.1	111.7	111.7	100.8	102.0	104.4
630	96.8	96.8	109.1	109.1	99.4	100.6	102.7
800	94.3	94.3	106.4	106.4	97.9	99.1	101.0
1000	91.8	91.8	103.5	103.5	96.4	97.6	99.2
1250	89.2	89.2	100.5	100.5	94.8	96.0	97.2
1600	86.5	86.5	97.3	97.3	93.1	94.3	95.0
2000	83.7	83.7	94.0	94.0	91.3	92.5	92.7
2500	80.7	80.7	90.5	90.5	89.4	90.6	90.2
3150	77.7	77.7	87.3	87.3	87.3	88.5	88.0
4000	74.5	74.5	84.0	84.0	85.2	86.1	85.4
5000	71.2	71.2	80.4	80.4	82.8	83.6	82.6
6300	67.7	67.7	76.7	76.7	80.4	80.8	79.7
8000	64.1	64.1	72.9	72.9	77.7	78.0	76.6
10000	60.2	60.2	68.8	68.8	74.9	74.9	73.3
12500	56.1	56.1	64.5	64.5	71.8	71.8	70.0
16000	51.8	51.8	59.8	59.8	68.4	68.4	66.3
20000	47.2	47.2	54.8	54.8	64.8	64.8	62.3
25000	42.4	42.4	49.4	49.4	61.0	61.0	57.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-1110 INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-511-106-160276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

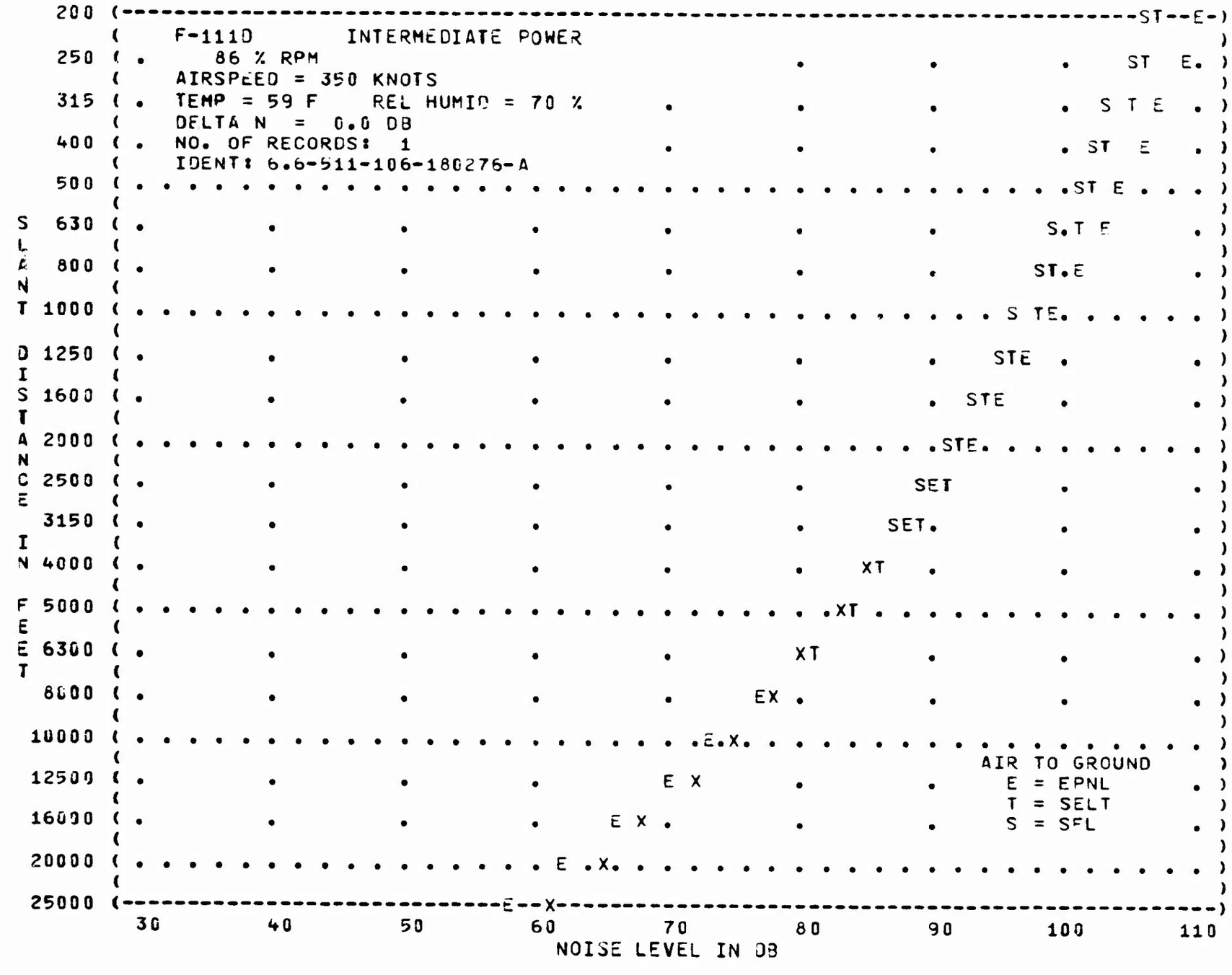

F-111D INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-511-106-180276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111D

OPERATION:
INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 511
OPS CODE: 106
PROFILE VER: A
18 FEB 76
PAGE L4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	73	74	72	83	91	92	88	87	92	93	94	93	93	93	92	93	93	92	92	90	85	83	82	85
250	71	72	70	81	89	90	86	85	90	91	92	91	91	91	90	90	91	90	90	88	83	80	79	81
315	69	70	68	79	87	88	84	83	88	89	90	89	89	88	88	88	88	88	87	85	80	77	76	77
400	67	68	66	77	85	85	81	81	86	87	88	87	87	86	86	86	86	85	85	82	77	74	72	72
500	65	66	64	75	83	83	79	79	84	85	86	85	85	84	84	84	84	83	82	79	74	70	68	67
630	63	64	62	73	81	80	76	77	82	83	84	83	83	82	81	81	81	80	79	76	71	66	63	61
800	61	62	60	71	78	78	74	74	80	81	82	81	80	80	79	79	79	77	76	73	67	62	57	54
1000	59	60	58	68	75<	75	71	71	78	79	80	79	78	77	77	76	76	75	73	69	63	57	51	45
1250	57	58	55	65	72	72	67	68	75	76	77	76	76	75	74	74	73	71	69	65	58	51	43	35
1600	55	54	52	61	68	68	64	64	72	74	75	74	73	72	71	71	70	68	65	60	53	44	34	23
2000	52	51	48	58	65	64	60	60	68	72	73	71	71	70	68	68	66	64	61	54	47	36	23	8
2500	49	47	44	53	60	60	56	56	64	68	70	69	68	67	65	64	63	59	55	48	39	26	10	
3150	45	42	39	49	55	55	51	51	59	64	67	66	65	64	62	60	58	54	49	40	30	15		
4000	40	37	34	43	50	49	45	45	54	59	63	63	62	60	58	56	53	49	42	31	20	1		
5000	35	33	29	38	45	44	40	40	48	54	59	58	58	56	54	51	48	42	33	19	7			
6300	30	28	25	33	40	40	35	35	42	48	54	54	54	52	49	46	41	34	23	6				
8000	28	26	22	31	38	37	33	32	39	45	51	50	50	47	44	39	33	24	11					
10000	26	24	20	29	35	35	30	29	36	42	47	46	45	42	37	31	24	13						
12500	23	21	18	26	33	32	27	26	33	38	43	41	39	36	30	22	13							
16000	21	19	15	24	30	29	24	23	29	34	38	36	33	28	21	11								
20000	19	17	13	21	27	26	21	19	25	29	33	29	25	19	10									
25000	16	14	10	18	24	23	17	15	20	23	26	22	16	8										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F-111D

OPERATION:
INTERMEDIATE POWER
86 % RPM

AIRSPEED = 350 KNOTS

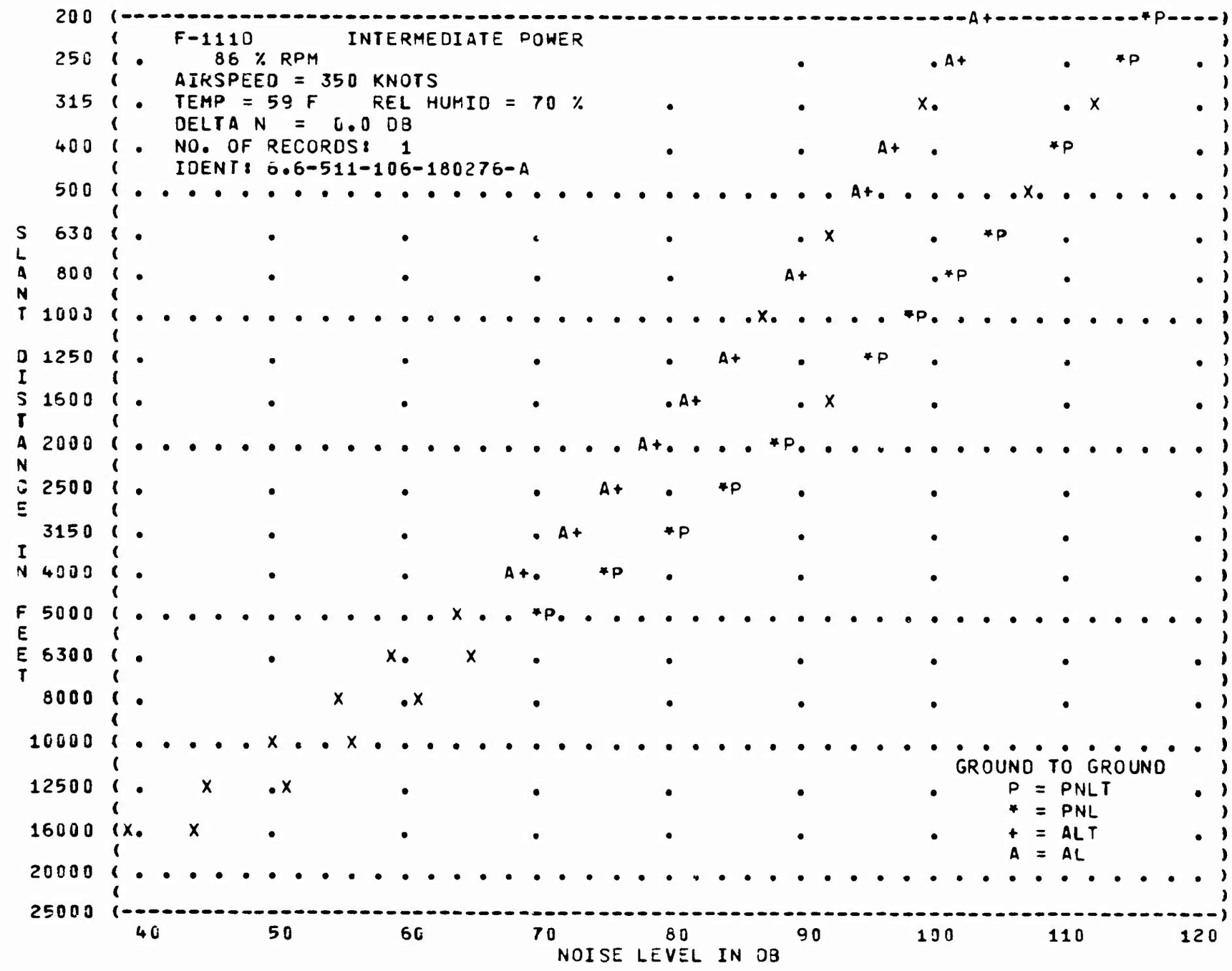
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

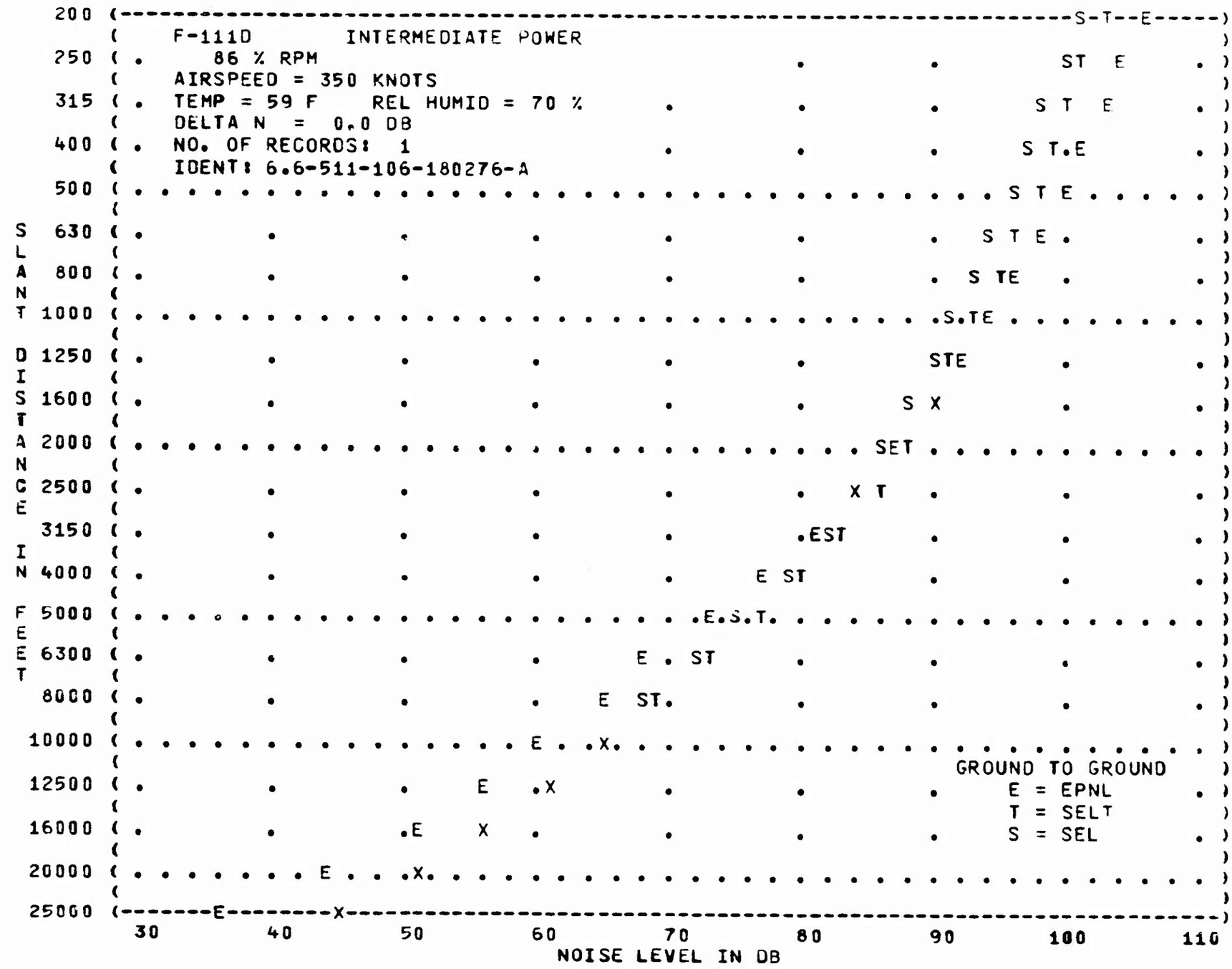
DELTA N = 0.0 DB

A/C CODE: 511
OPS CODE: 106
PROFILE VER: A
18 FEB 76
PAGE M4

SLANT DISTANCE (FEET)	AL (OBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	103.1	103.7	116.3	116.9	100.8	102.6	105.6
250	101.0	101.5	114.0	114.6	99.6	101.4	104.3
315	98.7	99.3	111.7	112.2	98.3	100.1	102.9
400	96.5	97.0	109.2	109.8	97.1	98.9	101.5
500	94.1	94.7	106.6	107.2	95.8	97.5	99.9
630	91.7	92.3	104.0	104.6	94.4	96.2	98.2
800	89.3	89.9	101.2	101.8	92.9	94.7	96.5
1000	86.7	87.3	98.2	98.8	91.4	93.2	94.5
1250	84.1	84.7	95.0	95.6	89.7	91.5	92.3
1600	81.3	81.9	91.6	92.2	87.9	89.7	89.9
2000	78.5	79.0	88.0	88.6	86.1	87.9	87.3
2500	75.3	75.9	84.1	84.7	84.0	85.7	84.4
3150	71.9	72.5	80.0	80.6	81.5	83.3	81.2
4000	68.1	68.6	75.4	75.9	78.8	80.2	77.4
5000	63.9	64.2	70.5	70.8	75.5	76.6	73.0
6300	59.2	59.5	65.2	65.4	71.8	72.6	68.4
8000	54.9	55.0	60.8	60.9	68.5	68.9	64.6
10000	50.2	50.2	55.9	55.9	64.8	64.8	60.4
12500	45.1	45.1	50.6	50.6	60.7	60.7	56.1
16000	39.5	39.5	44.2	44.2	56.1	56.1	50.7
20000	33.4	33.4	36.4	36.4	51.0	51.0	43.9
25000	26.6	26.6	28.0	28.0	45.3	45.3	36.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-1110 INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-511-106-180276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB


F-111D INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-511-106-180276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL

USAF F-111D AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

F-111D AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-511-001
AIRCRAFT CODE: 511
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
65% RPM	662-667
80% RPM	668-673
85% RPM	674-679
MIL PWR 95% RPM	680-685
AFTERBURNER, ZONE 3 95% RPM	686-691

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

14 APR 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
IDLE, 65% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 01
AIRCRAFT CODE 511
OPERATION CODE 02013
PROFILE VERSION A
14 APR 76
PAGE C1

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	65<	63	64	64	62	62	63	61	61	64	62	64	64	63	64	64	63	60<	40
63	65<	65	66	66	64	65	65	64	65	66	66	65	66	66	67	68	65	60<	40
80	65	70	72	72	72	74	73	72	71	71	73	74	73	74	74	75	72	60	40
100	64	70	72	71	71	73	71	69	70	73	74	75	74	74	75	76	73	62	42
125	59	66	67	66	63	63	64	64	67	69	70	70	69	68	68	70	67	58	38
160	61	67	67	65	62	61	66	67	68	70	70	71	74	72	71	70	70	59	39
200	63	69	68	63	61	62	64	62	64	67	68	69	70	70	69	67	70	57	37
250	66	70	67	65	63	63	65	64	64	66	66	66	67	67	67	67	70	58	38
315	65	71	68	67	64	64	64	61	60	62	63	63	66	69	68	72	70	59	39
400	66	71	68	69	64	61	65	60	58	58	60	62	64	65	66	70	69	59	39
500	67	69	69	71	67	63	66	60	63	60	61	63	63	64	66	68	70	59	39
630	67	68	71	71	66	62	65	60	61	59	59	61	61	64	64	66	66	56	36
800	74	77	81	78	74	71	71	69	65	64	64	63	63	66	65	66	67	58	38
1000	75	77	80	79	75	72	72	70	65	64	64	63	64	65	63	65	65	56	36
1250	74	78	77	77	75	72	71	68	65	61	62	62	64	64	62	64	63	54	34
1600	90	95	94	92	87	82	83	79	77	71	69	70	68	71	75	74	74	65	45
2000	88	94	93	91	87	83	82	80	77	75	74	74	72	75	77	78	76	68	48
2500	81	85	83	84	81	78	76	74	72	70	70	69	72	74	70	68	68	62	42
3150	81	85	83	83	82	78	75	74	72	70	70	69	69	69	68	67	67	61	41
4000	83	87	86	86	85	81	79	78	75	76	74	73	74	74	73	70	70	63	43
5000	79	83	82	80	79	75	73	72	68	69	68	69	71	71	69	66	65	56	36
6300	77	80	79	78	78	74	72	70	67	69	68	69	72	73	69	66	64	55	35
8000	73	76	75	74	74	70	69	66	63	68	65	66	68	68	65	63	62	51<	31
10000	69	72	70	69	69	65	64	61	61	66	63	63	65	65	62	60	59	47	27
OVERALL	94	99	98	96	93	89	88	86	84	83	83	83	84	84	84	84	83	74	54

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
IDLE, 65% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 01
AIRCRAFT CODE 511
OPERATION CODE 02013
PROFILE VERSION A
14 APR 76
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	108.2	112.9	112.3	110.9	108.1	104.4	103.2	101.3	99.2	99.2	98.2	98.0	99.0	99.3	98.7	98.8	97.8	89.1	68.5
250	106.0	110.7	110.1	108.6	105.8	102.0	101.0	99.0	96.9	96.8	95.8	95.7	96.6	97.0	96.4	96.6	95.6	86.8	66.1
315	103.7	108.4	107.8	106.3	103.3	99.6	98.7	96.6	94.4	94.4	93.4	93.2	94.1	94.5	94.1	94.3	93.3	84.5	63.7
400	101.3	106.0	105.4	104.0	100.8	97.0	96.3	94.0	91.9	91.8	90.8	90.7	91.6	92.0	91.7	91.9	90.9	82.2	61.2
500	98.9	103.6	103.0	101.5	98.1	94.5	93.8	91.5	89.2	89.1	88.2	88.1	88.9	89.3	89.2	89.5	88.4	79.7	58.7
630	96.3	101.0	100.4	99.0	95.5	91.9	91.2	89.0	86.6	86.2	85.3	85.1	86.0	86.5	86.6	86.9	85.9	77.1	55.8
800	93.6	98.3	97.8	96.3	92.7	89.2	88.5	86.2	83.9	83.1	82.2	82.2	82.9	83.7	83.9	84.2	83.2	74.4	53.0
1000	90.7	95.5	94.9	93.5	89.9	86.3	85.6	83.3	81.0	79.8	79.0	79.2	79.6	80.7	81.0	81.3	80.3	71.5	49.8
1250	87.7	92.5	91.9	90.5	86.8	83.2	82.6	80.2	77.9	76.4	75.9	76.0	76.3	77.4	77.9	78.3	77.3	68.4	46.0
1600	84.4	89.2	88.7	87.2	83.4	79.8	79.3	76.9	74.6	73.0	72.5	72.6	72.7	73.9	74.6	75.1	74.0	65.1	41.9
2000	81.0	85.8	85.3	83.7	79.8	76.2	75.7	73.3	70.9	69.2	68.7	68.9	68.8	70.2	70.9	71.5	70.5	61.5	36.7
2500	77.2	82.1	81.6	79.9	75.9	72.3	71.8	69.4	66.9	65.1	64.6	64.8	64.4	66.1	66.9	67.6	66.6	57.3	31.0
3150	73.2	78.1	77.7	75.7	71.6	67.9	67.5	65.0	62.5	60.5	60.0	60.2	59.8	61.6	62.5	63.2	62.2	52.8	23.3
4000	68.8	73.6	73.2	71.1	66.8	63.0	62.8	59.9	57.4	55.2	54.8	55.0	54.3	56.3	57.3	58.1	57.2	47.7	14.4
5000	63.8	68.7	68.4	66.2	61.8	57.5	57.6	54.5	52.0	49.1	48.5	48.7	48.3	50.5	51.5	52.4	51.6	40.9	5.5
6300	58.2	63.2	62.9	60.7	56.1	51.5	51.9	48.6	46.0	41.5	41.1	41.4	40.4	43.2	44.9	46.0	44.8	32.7	
8000	52.0	57.1	56.7	54.5	49.8	44.7	45.6	41.2	38.0	32.8	32.1	32.8	31.7	35.1	36.8	38.2	37.0	20.5	
10000	44.8	49.9	49.7	47.5	41.6	35.6	36.3	31.8	27.8	18.5	18.9	19.3	19.1	24.0	26.7	28.4	29.4	8.5	
12500	33.8	40.6	40.3	37.6	30.8	22.4	24.3	16.5	8.9	4.2	5.7	6.8	6.4	9.6	9.3	17.5	19.8		
16000	15.8	26.6	28.3	23.3	14.3	9.2	12.3	1.2								6.6	8.6		
20000		12.5	12.2	9.0			.3												
25000																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
IDLE, 65% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 01
AIRCRAFT CODE 511
OPERATION CODE 02013
PROFILE VERSION A
14 APR 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	111.0	116.0	115.3	113.2	110.4	106.1	105.1	103.4	101.5	101.2	99.9	99.8	100.2	100.7	101.0	101.4	100.1	91.0	70.4
250	108.7	113.7	113.1	111.0	108.0	103.7	102.9	101.1	99.2	98.8	97.5	97.4	97.9	98.4	98.8	99.1	97.9	88.8	68.1
315	106.4	111.4	110.8	108.7	105.6	101.3	100.6	98.6	96.7	96.4	95.1	95.0	95.4	95.9	96.5	96.8	95.6	86.5	65.7
400	104.0	109.1	108.4	106.4	103.0	98.7	98.2	96.1	94.2	93.8	92.5	92.4	92.8	93.4	94.1	94.5	93.2	84.1	63.2
500	101.6	106.6	106.0	103.9	100.3	96.2	95.7	93.6	91.5	91.1	89.8	89.7	90.1	90.7	91.6	92.0	90.8	91.6	60.6
630	99.0	104.1	103.4	101.4	97.7	93.6	93.1	91.0	88.9	88.2	87.0	86.9	87.2	87.9	89.0	89.5	88.2	79.0	57.7
800	96.3	101.4	100.8	98.7	95.0	90.8	90.4	88.3	86.2	85.1	83.9	83.9	84.2	85.1	86.3	86.8	85.5	76.3	54.9
1000	93.4	98.5	97.9	95.9	92.1	88.0	87.6	85.4	83.3	81.7	80.7	81.0	80.9	82.1	83.3	83.9	82.6	73.4	51.7
1250	90.4	95.5	94.9	92.8	89.0	84.8	84.5	82.3	80.2	78.4	77.5	77.8	77.6	78.8	80.2	80.9	79.6	70.4	47.9
1600	87.1	92.2	91.7	89.6	85.6	81.5	81.2	79.0	76.8	74.9	74.2	74.4	74.0	75.3	76.9	77.6	76.3	67.0	43.9
2000	83.7	88.8	88.3	86.1	82.0	77.9	77.6	75.4	73.2	71.2	70.4	70.7	70.1	71.6	73.3	74.0	72.8	63.4	38.6
2500	80.0	85.2	84.6	82.3	78.1	74.0	73.7	71.4	69.2	67.0	66.3	66.6	65.7	67.5	69.3	70.1	68.9	59.2	33.0
3150	75.9	81.2	80.7	78.1	73.8	69.6	69.4	67.1	64.8	62.5	61.7	61.9	61.0	63.0	64.8	65.7	64.5	54.7	25.2
4000	70.9	76.1	75.6	73.0	68.5	64.3	64.3	61.6	59.2	56.8	56.1	56.4	55.4	57.4	59.2	60.2	59.1	49.3	15.9
5000	65.5	70.6	70.2	67.7	63.1	58.5	58.8	55.8	53.4	50.3	49.5	49.8	49.1	51.3	52.9	53.9	52.9	42.1	6.7
6300	59.3	64.4	64.1	61.7	56.9	52.1	52.6	49.5	46.9	42.3	41.7	42.1	41.0	43.8	45.8	47.0	45.7	33.4	
8000	52.6	57.7	57.3	55.0	50.2	45.0	46.0	41.6	38.4	33.2	32.5	33.2	32.0	35.4	37.2	38.7	37.4	20.9	
10000	44.8	49.9	49.7	47.5	41.6	35.6	36.3	31.8	27.8	18.5	18.9	19.8	19.1	24.0	26.7	28.4	29.4	8.5	
12500	33.8	40.6	40.3	37.6	30.8	22.4	24.3	16.5	8.9	4.2	5.7	6.8	6.4	9.6	9.3	17.5	19.8		
16000	15.8	26.6	28.3	23.3	14.3	9.2	12.3	1.2								6.6	8.6		
20000		12.5	12.2	9.0			.3												
25000																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
IDLE, 65% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 01
AIRCRAFT CODE 511
OPERATION CODE 02013
PROFILE VERSION A
14 APR 76
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	96.8	101.7	101.0	99.2	95.7	91.6	90.8	88.6	86.0	84.4	83.4	83.3	84.0	85.0	84.8	84.5	83.6	75.6	55.6
250	94.6	99.5	98.8	97.0	93.5	89.4	88.6	86.4	83.8	82.1	81.1	81.0	81.6	82.7	82.6	82.3	81.4	73.4	53.4
315	92.3	97.3	96.6	94.8	91.2	87.1	86.4	84.1	81.5	79.7	78.7	78.6	79.2	80.3	80.3	80.1	79.2	71.2	51.2
400	90.0	95.0	94.3	92.5	88.8	84.7	84.0	81.7	79.1	77.3	76.3	76.2	76.7	77.8	78.0	77.8	76.9	68.9	48.9
500	87.7	92.6	92.0	90.1	86.4	82.3	81.6	79.3	76.7	74.7	73.8	73.7	74.1	75.3	75.5	75.5	74.6	66.5	46.5
630	85.2	90.2	89.6	87.7	83.8	79.8	79.2	76.8	74.2	72.0	71.2	71.1	71.4	72.7	73.0	73.0	72.2	64.0	44.0
800	82.7	87.7	87.1	85.1	81.2	77.1	76.6	74.2	71.6	69.3	68.4	68.3	68.6	69.9	70.5	70.5	69.7	61.5	41.5
1000	80.0	85.1	84.5	82.5	78.4	74.4	73.9	71.4	68.8	66.4	65.5	65.5	65.6	67.1	67.7	67.9	67.0	58.8	38.8
1250	77.2	82.3	81.7	79.7	75.5	71.4	71.1	68.6	66.0	63.3	62.5	62.5	62.5	64.1	64.9	65.1	64.3	56.0	36.0
1600	74.3	79.3	78.8	76.7	72.5	68.4	68.1	65.5	62.9	60.0	59.3	59.3	59.2	60.9	61.9	62.2	61.4	53.0	33.0
2000	71.1	76.2	75.7	73.6	69.2	65.1	64.9	62.3	59.7	56.6	55.9	56.0	55.8	57.6	58.7	59.1	58.4	49.9	29.9
2500	67.7	72.8	72.3	70.2	65.7	61.6	61.5	58.8	56.2	53.0	52.3	52.4	52.1	54.0	55.2	55.7	55.0	46.5	26.5
3150	63.9	69.0	68.6	66.4	61.9	57.8	57.8	55.1	52.4	49.0	48.4	48.6	48.2	50.2	51.5	52.0	51.4	42.8	22.8
4000	59.8	64.9	64.5	62.3	57.3	53.6	53.7	51.0	48.2	44.8	44.2	44.4	44.0	46.0	47.3	47.9	47.4	38.7	18.7
5000	55.2	60.2	60.0	57.7	53.2	49.0	49.2	46.4	43.6	40.2	39.6	39.8	39.4	41.4	42.7	43.3	42.9	34.1	14.1
6300	50.0	55.0	54.8	52.5	48.0	43.9	44.1	41.3	38.5	35.1	34.6	34.8	34.4	36.4	37.6	38.2	38.0	29.1	9.1
8000	44.2	49.0	49.1	46.8	42.4	38.4	38.6	35.8	33.0	29.8	29.5	29.6	29.6	31.5	32.3	33.2	33.2	24.1	4.1
10000	37.7	42.3	42.7	40.4	36.2	32.3	32.5	29.8	27.0	24.2	24.1	24.3	24.5	26.4	26.7	28.1	28.3	18.9	
12500	30.6	34.7	35.8	33.5	29.4	25.9	26.0	23.4	20.7	18.4	18.7	19.0	19.4	21.1	21.1	22.9	23.3	13.7	
16000	23.0	26.5	28.5	26.3	22.3	19.0	19.3	16.6	14.3	12.6	13.1	13.6	14.1	15.7	15.6	17.7	18.2	8.3	
20000	15.3	18.2	20.8	18.8	14.9	11.9	12.3	9.5	7.9	6.7	7.4	8.1	8.7	10.1	10.1	12.3	12.8	2.6	
25000	7.4	10.1	12.7	11.1	7.1	4.4	5.2	2.2	1.5	1.0	1.8	2.7	3.4	4.4	4.5	6.7	6.9		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
IDLE, 65% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111C LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 01
AIRCRAFT CODE 511
OPERATION CODE 02013
PROFILE VERSION A
14 APR 76
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	99.5	104.7	104.0	101.6	97.9	93.3	92.7	90.7	88.3	86.4	85.1	85.0	85.2	86.4	87.2	87.1	85.9	77.5	57.5
250	97.3	102.5	101.8	99.4	95.7	91.1	90.5	88.4	86.1	84.1	82.8	82.7	82.9	84.1	84.9	84.9	83.8	75.3	55.3
315	95.1	100.3	99.6	97.1	93.4	88.8	88.3	86.2	83.8	81.7	80.4	80.4	80.5	81.7	82.7	82.7	81.5	73.1	53.1
400	92.8	98.0	97.3	94.9	91.0	86.4	85.9	83.8	81.4	79.2	78.0	77.9	78.0	79.2	80.3	80.4	79.2	70.8	50.8
500	90.4	95.7	95.0	92.5	88.6	84.0	83.6	81.4	79.0	76.7	75.5	75.4	75.4	76.7	77.9	78.0	76.9	68.4	48.4
630	87.9	93.3	92.6	90.1	86.0	81.4	81.1	78.9	76.5	74.0	72.9	72.8	72.7	74.1	75.4	75.6	74.5	66.0	46.0
800	85.4	90.7	90.1	87.5	83.4	78.8	78.5	76.3	73.9	71.2	70.1	70.1	69.9	71.3	72.8	73.1	72.0	63.4	43.4
1000	82.7	88.1	87.5	84.9	80.7	76.0	75.8	73.5	71.1	68.3	67.2	67.2	66.9	68.5	70.1	70.5	69.4	60.7	40.7
1250	79.9	85.3	84.7	82.1	77.7	73.1	73.0	70.7	68.3	65.3	64.2	64.2	63.8	65.5	67.2	67.7	66.6	57.9	37.9
1600	77.0	82.4	81.8	79.1	74.7	70.1	70.0	67.6	65.2	62.0	61.0	61.1	60.5	62.3	64.2	64.8	63.7	55.0	35.0
2000	73.8	79.2	78.7	76.0	71.4	66.8	66.9	64.4	61.9	58.6	57.6	57.7	57.1	59.0	61.0	61.7	60.7	51.8	31.8
2500	70.4	75.8	75.3	72.6	67.9	63.3	63.4	60.9	58.5	54.9	54.0	54.2	53.4	55.4	57.6	58.3	57.3	48.4	28.4
3150	66.7	72.1	71.6	68.8	64.1	59.5	59.7	57.1	54.7	51.0	50.1	50.3	49.5	51.6	53.8	54.6	53.7	44.7	24.7
4000	62.0	67.3	67.0	64.2	59.5	55.0	55.3	52.6	50.1	46.4	45.5	45.8	45.0	47.1	49.2	49.9	49.2	40.2	20.2
5000	56.9	62.1	61.8	59.2	54.5	50.1	50.3	47.7	45.0	41.3	40.6	40.8	40.1	42.3	44.1	44.8	44.3	35.3	15.3
6300	51.1	56.2	56.0	53.5	48.9	44.6	44.9	42.2	39.4	35.9	35.2	35.5	34.9	37.0	38.5	39.3	38.9	29.9	9.9
8000	44.8	49.6	49.7	47.3	42.8	38.7	38.9	36.3	33.4	30.1	29.8	30.0	29.8	31.8	32.7	33.7	33.7	24.5	4.5
10000	37.7	42.3	42.7	40.4	36.2	32.3	32.5	29.8	27.0	24.2	24.1	24.3	24.5	26.4	26.7	28.1	28.3	18.9	
12500	30.6	34.7	35.8	33.5	29.4	25.9	26.0	23.4	20.7	18.4	18.7	19.0	19.4	21.1	21.1	22.9	23.3	13.7	
16000	23.0	26.5	28.5	26.3	22.3	19.0	19.3	16.6	14.3	12.6	13.1	13.6	14.1	15.7	15.6	17.7	18.2	8.3	
20000	15.3	18.2	20.8	18.8	14.9	11.9	12.3	9.5	7.9	6.7	7.4	8.1	8.7	10.1	10.1	12.3	12.8	2.6	
25000	7.4	10.1	12.7	11.1	7.1	4.4	5.2	2.2	1.5	1.0	1.8	2.7	3.4	4.4	4.5	6.7	6.9		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

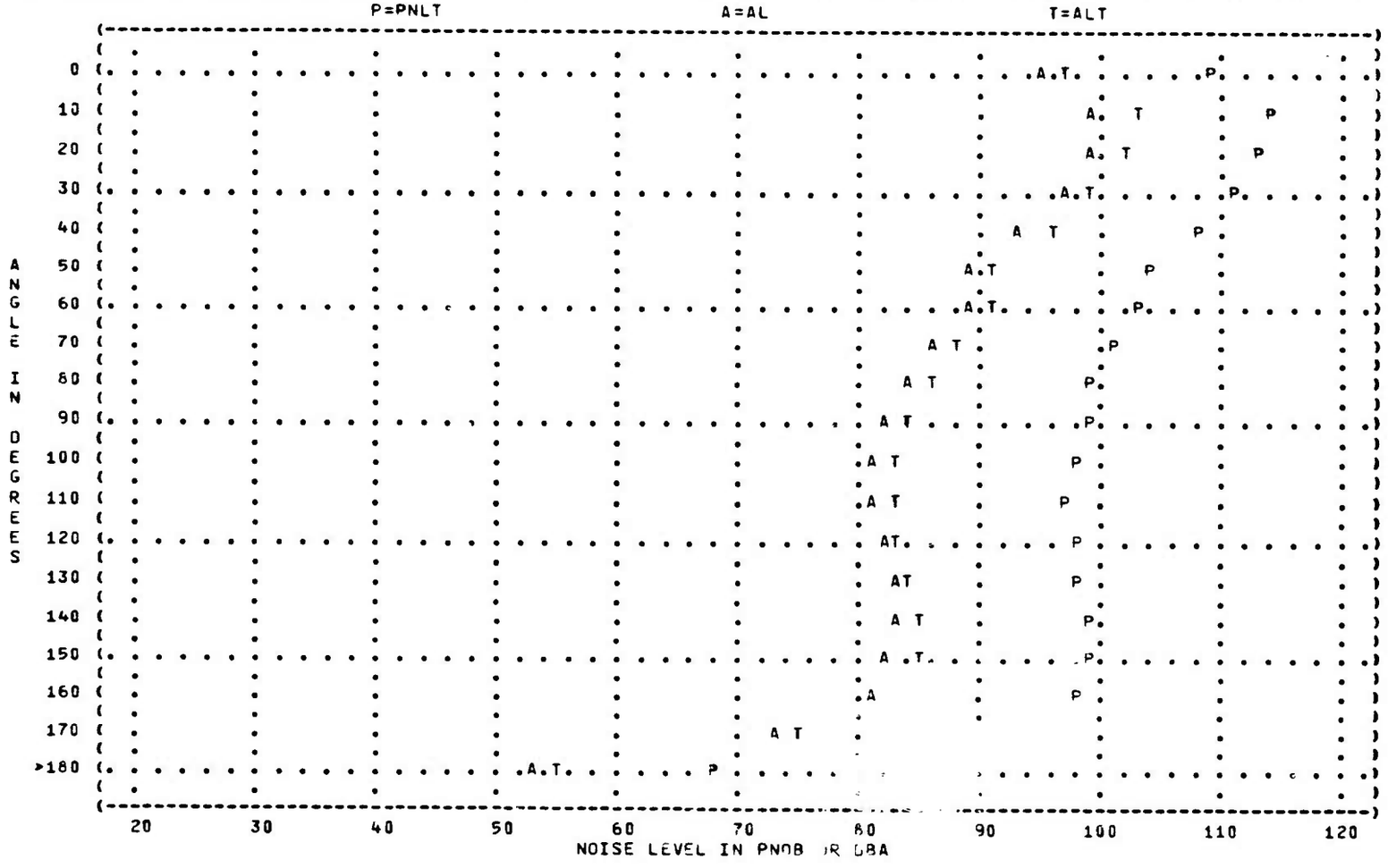
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
IDLE, 65% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 01
AIRCRAFT CODE 511
OPERATION CODE 02013
PROFILE VERSION A
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> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 02
AIRCRAFT CODE 511
OPERATION CODE 02019
PROFILE VERSION A
14 APR 76
PAGE C2

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
ENG RUNUP 80% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.8 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	72	71	74	71	74	74	75	74	75	77	78	80	82	88	91	93	91	81	71
63	72	74	75	76	76	74	76	78	79	79	80	82	85	91	95	97	93	83	73
80	75	76	76	79	79	78	80	80	82	80	82	84	87	92	97	99	94	84	74
100	77	78	81	83	83	82	82	82	83	85	86	87	89	95	99	103	99	89	79
125	79	80	81	81	81	78	81	83	84	84	86	87	89	93	97	103	98	88	78
160	81	82	82	81	80	79	82	83	85	85	87	88	90	93	95	100	100	90	80
200	81	82	82	79	79	79	80	81	83	83	85	86	88	91	94	95	96	86	76
250	81	81	81	81	79	80	82	83	84	82	82	82	85	88	92	90	91	81	71
315	79	81	81	80	79	79	79	78	79	76	78	80	83	86	88	90	89	79	69
400	79	80	81	81	76	75	75	75	76	74	75	78	79	83	85	86	84	74	64
500	79	78	80	79	74	75	75	76	75	74	74	78	78	82	83	84	83	73	63
630	79	78	80	79	76	76	76	76	77	76	75	79	78	82	81	82	80	70	60
800	78	77	80	79	75	76	75	76	76	75	75	78	77	80	80	81	78	68	58
1000	80	80	82	79	78	77	76	77	76	75	75	77	76	79	78	78	75	65	55
1250	85	85	85	83	82	81	79	79	78	75	75	76	75	78	77	77	73	63	53
1600	88	87	87	86	84	83	82	80	78	75	75	76	75	77	76	76	73	63	53
2000	87	86	87	86	83	82	80	79	78	76	76	76	75	77	76	75	72	62	52
2500	95	93	93	92	90	88	86	84	82	79	78	78	76	77	76	76	74	64	54
3150	98	97	97	96	95	92	91	91	88	85	85	84	80	81	80	81	79	69	59
4000	91	90	90	89	89	87	85	86	83	83	85	85	83	83	79	78	76	66	56
5000	91	89	89	87	87	85	83	84	80	78	77	77	76	76	74	73	72	62	52
6300	90	88	88	87	87	85	83	84	80	79	78	77	76	76	74	73	73	63	53
8000	85	84	83	82	82	79	78	79	76	77	76	76	74	74	72	71	70	60	50
10000	81	81	80	79	78	76	75	75	71	74	74	72	70	71	69	68	67	57	47
OVERALL	102	101	101	100	99	97	95	96	95	94	95	96	97	101	105	108	105	95	85

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
ENG RUNUP 80% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 02
AIRCRAFT CODE 511
OPERATION CODE 02019
PROFILE VERSION A
14 APR 76
PAGE 02

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	119.8	118.5	118.7	117.5	116.5	114.5	113.4	113.3	111.2	109.3	109.4	109.9	108.8	110.5	110.7	112.9	110.8	100.7	90.5
250	117.4	116.2	116.4	115.2	114.2	112.2	111.1	111.0	108.9	107.0	107.1	107.6	106.5	108.3	108.6	110.8	108.7	98.6	88.3
315	115.1	113.8	114.0	112.9	111.8	109.8	108.7	108.6	106.6	104.6	104.8	105.2	104.2	105.9	106.5	108.6	106.6	96.4	86.1
400	112.6	111.3	111.5	110.4	109.3	107.4	106.3	106.2	104.1	102.2	102.3	102.7	101.7	103.5	104.2	106.4	104.3	94.1	83.7
500	110.0	108.7	109.0	107.8	106.7	104.8	103.7	103.6	101.6	99.6	99.8	100.1	99.1	101.0	102.0	104.1	101.9	91.7	81.1
630	107.3	106.0	105.2	105.1	104.0	102.0	100.9	100.9	98.8	96.9	97.0	97.3	96.3	98.3	99.6	101.6	99.3	89.1	78.3
800	104.3	103.1	103.3	102.2	101.0	99.1	98.0	97.9	95.9	94.0	94.1	94.3	93.4	95.4	97.0	99.1	96.6	86.3	75.4
1000	101.2	99.9	100.2	99.1	97.9	96.0	94.9	94.8	92.8	90.8	91.0	91.2	90.2	92.4	94.1	96.2	93.7	83.3	72.3
1250	97.8	96.5	96.8	95.7	94.5	92.6	91.5	91.4	89.4	87.4	87.6	87.9	86.7	89.1	91.0	93.1	90.6	79.9	69.0
1600	94.1	92.8	93.1	92.0	90.7	88.9	87.8	87.7	85.7	83.7	83.9	84.2	83.0	85.5	87.4	89.7	87.1	76.3	65.2
2000	90.0	88.7	89.1	87.9	86.6	84.8	83.7	83.6	81.7	79.6	79.8	80.2	79.0	81.6	83.4	85.8	83.2	72.3	61.1
2500	85.4	84.2	84.5	83.4	82.0	80.2	79.1	79.0	77.2	75.1	75.3	75.7	74.6	77.3	78.8	81.2	78.7	67.8	56.3
3150	80.2	79.1	79.4	78.3	76.8	75.1	74.0	73.9	72.1	70.0	70.2	70.7	69.6	72.9	74.2	76.1	73.7	62.7	50.7
4000	74.8	73.5	73.9	72.9	70.9	69.2	68.1	68.0	66.2	64.1	64.3	65.0	64.6	68.2	69.3	70.7	68.4	57.4	44.8
5000	68.8	67.5	67.9	66.9	64.5	63.1	61.8	61.7	59.8	57.6	57.8	59.7	59.3	63.1	64.2	65.6	63.3	51.6	38.6
6300	62.1	60.8	61.3	60.3	57.7	56.6	55.6	55.0	53.4	51.4	51.6	54.1	53.6	57.6	58.8	60.2	57.8	45.5	29.2
8000	55.5	54.6	55.2	54.0	51.4	50.4	49.2	48.5	47.8	46.0	46.1	49.1	48.6	53.1	54.6	56.2	53.7	40.4	22.5
10000	48.2	47.4	48.1	46.3	43.2	42.2	41.6	41.7	41.8	39.9	40.0	43.5	43.1	48.1	50.0	51.9	49.1	35.3	12.4
12500	39.5	38.7	40.5	39.0	34.7	34.8	33.9	34.1	35.0	32.7	32.8	37.2	37.2	42.7	44.9	46.9	44.0	29.7	2.4
16000	31.4	30.8	33.0	31.3	24.6	25.2	24.1	25.8	26.3	21.7	21.9	29.8	30.3	36.5	39.2	41.5	38.6	20.1	
20000	19.5	18.3	22.6	20.6	9.4	11.0	10.6	12.6	12.0	9.4	6.9	17.7	19.2	29.5	32.8	35.6	32.3	10.5	
25000	7.6	5.8	8.5	10.0								5.7	8.0	13.1	22.8	29.4	25.4	.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 02
AIRCRAFT CODE 511
OPERATION CODE 02019
PROFILE VERSION A
14 APR 76
PAGE E2

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
ENG RUNUP 80% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.8 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	121.8	120.5	120.5	119.4	118.4	116.3	115.3	115.0	113.0	110.6	110.6	111.5	110.4	111.9	110.7	114.0	112.1	102.0	91.8
250	119.5	118.2	118.2	117.1	116.1	114.0	113.0	112.7	110.7	108.3	108.3	109.2	108.1	109.6	108.6	111.9	110.0	99.8	89.6
315	117.1	115.8	115.9	114.7	113.7	111.6	110.6	110.4	108.3	105.9	106.0	106.8	105.7	107.3	106.5	109.8	107.8	97.6	87.3
400	114.6	113.3	113.4	112.2	111.3	109.1	108.1	107.9	105.9	103.5	103.5	104.3	103.2	104.9	104.2	107.6	105.5	95.4	85.0
500	112.0	110.7	110.8	109.7	108.7	106.5	105.5	105.3	103.3	100.9	101.0	101.7	100.6	102.3	102.0	105.3	103.1	92.9	82.3
630	109.3	108.0	108.1	106.9	105.9	103.8	102.8	102.6	100.6	98.2	98.3	98.9	97.9	99.6	99.6	102.8	100.6	90.3	79.6
800	106.4	105.1	105.2	104.0	103.0	100.9	99.9	99.6	97.7	95.2	95.4	95.9	94.9	96.8	97.0	100.2	97.9	87.5	76.7
1000	103.2	101.9	102.1	100.9	99.8	97.7	96.8	96.5	94.6	92.1	92.2	92.8	91.7	93.8	94.1	97.4	95.0	84.5	73.6
1250	99.8	98.5	98.7	97.5	96.4	94.3	93.4	93.1	91.2	88.7	88.8	89.4	88.2	90.5	91.0	94.2	91.8	81.2	70.2
1600	96.1	94.8	95.0	93.8	92.7	90.6	89.6	89.4	87.5	85.0	85.1	85.8	84.5	86.9	87.4	90.8	88.4	77.5	66.5
2000	92.0	90.7	90.9	89.8	88.6	86.5	85.6	85.3	83.5	80.9	81.0	81.8	80.6	83.0	83.4	87.0	84.5	73.5	62.3
2500	87.4	86.2	86.4	85.2	84.0	82.0	81.0	80.7	79.0	76.4	76.5	77.3	76.1	78.7	78.8	82.4	80.0	69.0	57.5
3150	82.2	81.1	81.3	80.1	78.8	76.8	75.9	75.6	73.8	71.3	71.4	72.3	71.1	74.3	74.2	77.2	75.0	63.9	51.9
4000	76.5	75.1	75.4	74.4	72.5	70.6	69.6	69.3	67.6	65.1	65.3	66.2	65.8	69.3	69.3	71.6	69.4	58.4	45.8
5000	70.1	68.7	69.1	68.0	65.7	64.1	62.9	62.7	60.8	58.4	58.6	60.6	60.2	63.9	64.2	66.3	64.0	52.3	39.3
6300	62.9	61.6	62.0	61.0	58.5	57.3	56.4	55.7	54.1	51.9	52.1	54.7	54.3	58.2	58.8	60.7	58.3	46.0	29.7
8000	55.9	55.0	55.6	54.3	51.8	50.7	49.6	48.9	48.1	46.3	46.4	49.4	48.9	53.4	54.6	56.5	54.0	40.6	22.8
10000	48.2	47.4	48.1	46.3	43.2	42.2	41.6	41.7	41.8	39.9	40.0	43.5	43.1	48.1	50.0	51.9	49.1	35.3	12.4
12500	39.5	38.7	40.5	39.0	34.7	34.8	33.9	34.1	35.0	32.7	32.8	37.2	37.2	42.7	44.9	46.9	44.0	29.7	2.4
16000	31.4	30.8	33.0	31.3	24.6	25.2	24.1	25.8	26.3	21.7	21.9	29.8	30.3	36.5	39.2	41.5	38.6	20.1	
20000	19.5	18.3	22.6	20.6	9.4	11.0	10.6	12.6	12.0	9.4	6.9	17.7	19.2	29.5	32.8	35.6	32.3	10.5	
25000	7.6	5.8	8.5	10.0								5.7	8.0	13.1	22.8	29.4	25.4	.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
ENG RUNUP 80% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 02
AIRCRAFT CODE 511
OPERATION CODE 02019
PROFILE VERSION A
14 APR 76
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	105.3	103.8	103.9	102.7	101.5	99.5	98.0	97.9	95.2	93.4	93.6	93.8	92.4	94.3	94.9	96.5	94.9	84.9	74.9
250	103.0	101.5	101.6	100.4	99.2	97.1	95.7	95.6	92.9	91.1	91.3	91.5	90.1	92.1	92.8	94.5	92.8	82.8	72.8
315	100.6	99.1	99.2	98.1	96.8	94.8	93.3	93.2	90.6	88.7	88.9	89.2	87.8	89.9	90.7	92.4	90.8	80.8	70.8
400	98.2	96.6	96.8	95.6	94.4	92.3	90.9	90.7	88.1	86.2	86.5	86.7	85.5	87.7	88.5	90.2	88.6	78.6	68.6
500	95.6	94.1	94.2	93.1	91.8	89.7	88.3	88.1	85.6	83.7	83.9	84.2	83.0	85.3	86.2	88.0	86.3	76.3	66.3
630	92.9	91.4	91.6	90.4	89.1	87.0	85.6	85.4	82.9	81.0	81.2	81.6	80.5	82.9	83.8	85.6	83.9	73.9	63.9
800	90.1	88.6	88.7	87.6	86.2	84.2	82.8	82.6	80.1	78.1	78.3	78.9	77.8	80.3	81.3	83.1	81.3	71.3	61.3
1000	87.1	85.6	85.8	84.6	83.2	81.2	79.8	79.5	77.1	75.1	75.3	76.0	75.0	77.7	78.7	80.5	78.7	68.7	58.7
1250	83.8	82.4	82.6	81.5	79.9	78.0	76.6	76.3	74.0	72.0	72.1	72.9	72.1	74.9	75.9	77.6	75.8	65.8	55.8
1600	80.4	78.9	79.2	78.1	76.4	74.5	73.1	72.9	70.7	68.6	68.8	69.8	69.0	72.0	72.9	74.6	72.7	62.7	52.7
2000	76.6	75.2	75.5	74.4	72.6	70.8	69.5	69.2	67.1	65.1	65.3	66.5	65.8	69.0	69.9	71.4	69.5	59.5	49.5
2500	72.5	71.2	71.6	70.4	68.5	66.9	65.5	65.3	63.3	61.5	61.5	63.1	62.4	65.7	66.4	67.8	65.8	55.8	45.8
3150	68.1	66.9	67.3	66.1	64.1	62.7	61.3	61.1	59.4	57.6	57.6	59.5	58.8	62.2	62.7	64.0	61.9	51.9	41.9
4000	63.4	62.2	62.8	61.5	59.3	58.1	56.9	56.6	55.2	53.5	53.5	55.6	54.9	58.3	58.6	59.8	57.6	47.6	37.6
5000	58.2	57.3	58.0	56.5	54.3	53.3	52.1	51.9	50.7	49.1	49.1	51.4	50.7	54.1	54.3	55.4	53.2	43.2	33.2
6300	52.8	52.0	52.9	51.3	49.1	48.3	47.1	47.0	46.0	44.5	44.5	47.0	46.2	49.7	49.8	50.9	48.6	38.6	28.6
8000	47.4	46.8	47.8	46.1	43.8	43.3	42.3	42.3	41.6	40.3	40.3	42.3	42.2	45.9	46.2	47.5	45.2	35.2	25.2
10000	41.8	41.3	42.6	40.9	38.3	38.1	37.2	37.4	37.1	35.8	35.8	38.5	38.0	41.8	42.4	43.8	41.7	31.7	21.7
12500	36.0	35.5	37.1	35.4	32.6	32.6	31.9	32.2	32.2	31.0	31.0	33.9	33.6	37.4	38.3	40.0	38.0	28.0	18.0
16000	30.0	29.6	31.3	29.8	26.7	26.9	26.4	26.8	27.1	25.9	26.0	28.9	28.9	32.7	34.2	36.2	34.1	24.1	14.1
20000	23.9	23.5	25.2	24.0	20.6	20.9	20.7	21.2	21.7	20.5	20.9	23.6	24.0	27.9	29.9	32.3	30.2	20.2	10.2
25000	17.5	17.2	18.8	17.8	14.5	14.8	14.8	15.4	16.1	15.1	15.8	18.2	19.2	23.1	25.7	28.4	26.2	16.2	6.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 02
AIRCRAFT CODE 511
OPERATION CODE 02019
PROFILE VERSION A
14 APR 76
PAGE G2

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
ENG RUNUP 80% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.8 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	107.3	105.8	105.7	104.6	103.5	101.2	99.9	99.6	97.0	94.7	94.9	95.3	93.9	95.7	94.9	97.7	96.2	86.2	76.2
250	105.0	103.5	103.4	102.3	101.2	98.9	97.6	97.3	94.7	92.4	92.5	93.1	91.6	93.5	92.8	95.6	94.1	84.1	74.1
315	102.7	101.1	101.1	99.9	98.8	96.5	95.2	94.9	92.3	90.0	90.1	90.7	89.3	91.3	90.7	93.5	92.0	82.0	72.0
400	100.2	98.6	98.6	97.5	96.3	94.1	92.7	92.4	89.9	87.5	87.7	88.3	87.0	89.0	88.5	91.4	89.8	79.8	69.8
500	97.6	96.1	96.1	94.9	93.7	91.5	90.2	89.9	87.4	85.0	85.1	85.8	84.5	86.7	86.2	89.1	87.5	77.5	67.5
630	94.9	93.4	93.4	92.3	91.0	88.8	87.5	87.1	84.7	82.3	82.4	83.1	82.0	84.3	83.8	86.8	85.1	75.1	65.1
800	92.1	90.6	90.6	89.5	88.2	86.0	84.6	84.3	81.9	79.4	79.5	80.4	79.3	81.7	81.3	84.3	82.6	72.6	62.6
1000	89.1	87.6	87.6	86.5	85.1	82.9	81.6	81.3	78.9	76.4	76.6	77.5	76.5	79.1	78.7	81.6	79.9	69.9	59.9
1250	85.9	84.4	84.4	83.3	81.8	79.7	78.4	78.0	75.8	73.3	73.4	74.5	73.6	76.3	75.9	78.8	77.0	67.0	57.0
1600	82.4	80.9	81.0	79.9	78.3	76.3	75.0	74.6	72.4	69.9	70.0	71.3	70.5	73.4	72.9	75.7	73.9	63.9	53.9
2000	78.6	77.2	77.4	76.2	74.5	72.6	71.3	70.9	68.9	66.4	66.5	68.1	67.4	70.3	69.9	72.5	70.7	60.7	50.7
2500	74.6	73.2	73.4	72.3	70.4	68.6	67.4	67.0	65.1	62.7	62.7	64.6	63.9	67.1	66.4	69.0	67.1	57.1	47.1
3150	70.2	68.9	69.2	68.0	66.0	64.4	63.2	62.8	61.1	58.9	58.8	61.0	60.3	63.5	62.7	65.2	63.1	53.1	43.1
4000	65.0	63.8	64.3	63.0	60.9	59.6	58.4	58.0	56.6	54.5	54.5	56.9	56.1	59.4	58.6	60.7	58.6	48.6	38.6
5000	59.5	58.5	59.1	57.6	55.5	54.4	53.2	53.0	51.7	49.9	49.9	52.3	51.6	54.9	54.3	56.1	53.9	43.9	33.9
6300	53.6	52.8	53.6	52.0	49.9	49.0	47.9	47.7	46.7	45.1	45.0	47.6	46.8	50.2	49.8	51.4	49.1	39.1	29.1
8000	47.8	47.2	48.2	46.5	44.2	43.6	42.6	42.6	42.0	40.5	40.5	43.2	42.5	46.1	46.2	47.7	45.5	35.5	25.5
10000	41.8	41.3	42.6	40.9	38.3	38.1	37.2	37.4	37.1	35.8	35.8	38.5	38.0	41.8	42.4	43.8	41.7	31.7	21.7
12500	36.0	35.5	37.1	35.4	32.6	32.6	31.9	32.2	32.2	31.0	31.0	33.9	33.6	37.4	38.3	40.0	38.0	28.0	18.0
16000	30.0	29.6	31.3	29.8	26.7	26.9	26.4	26.8	27.1	25.9	26.0	28.9	28.9	32.7	34.2	36.2	34.1	24.1	14.1
20000	23.9	23.5	25.2	24.0	20.6	20.9	20.7	21.2	21.7	20.5	20.9	23.6	24.0	27.9	29.9	32.3	30.2	20.2	10.2
25000	17.5	17.2	18.8	17.8	14.5	14.8	14.8	15.4	16.1	15.1	15.8	18.2	19.2	23.1	25.7	28.4	26.2	16.2	6.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

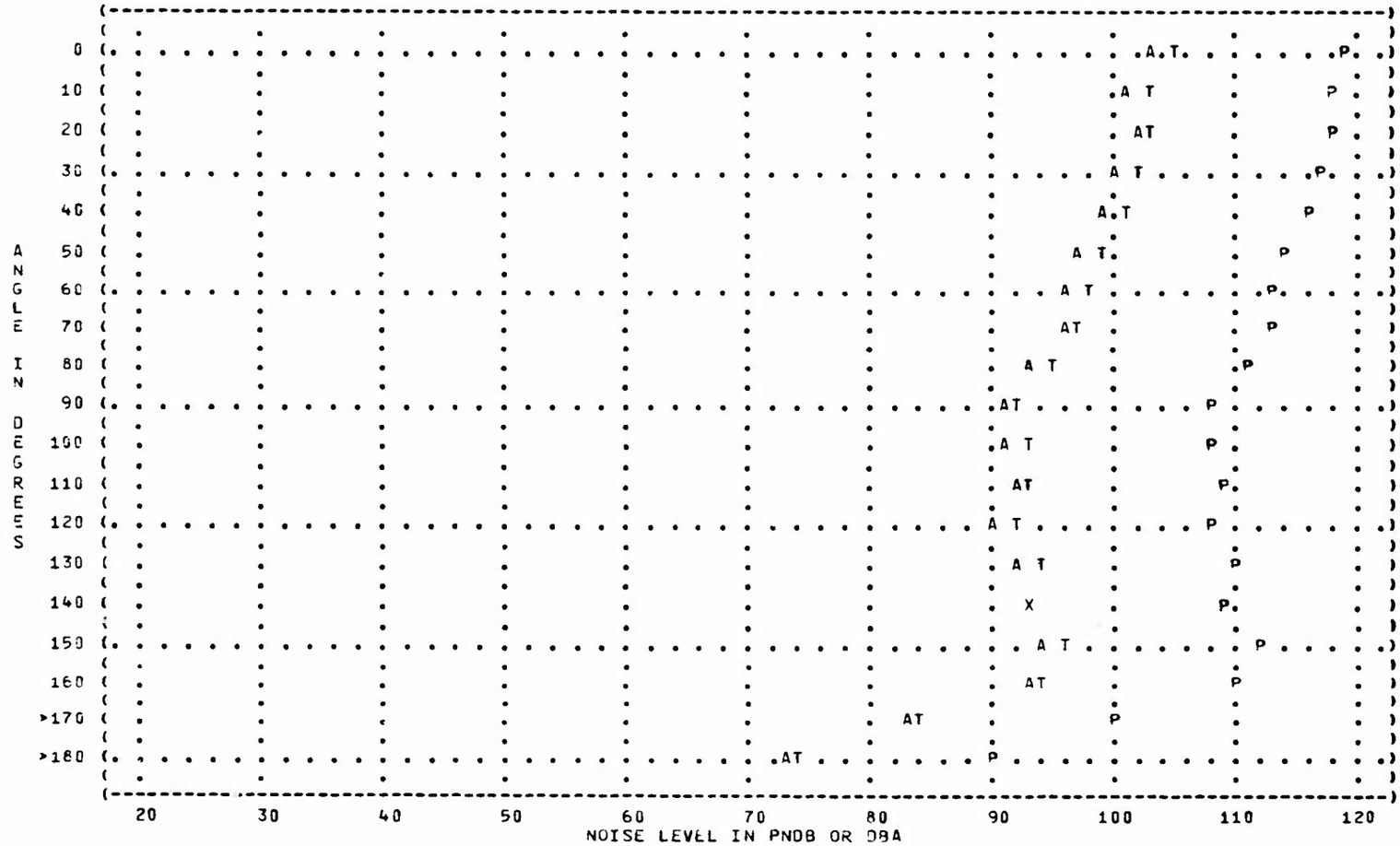
NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
ENG RUNUP 80% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 02
AIRCRAFT CODE 511
OPERATION CODE 02019
PROFILE VERSION A
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P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN G3
AIRCRAFT CODE 511
OPERATION CODE 01018
PROFILE VERSION A
14 APR 76
PAGE C3

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
ENG RUNUP 85% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	73	77	75	76	76	77	78	78	80	81	83	85	90	93	99	102	100	90	80
63	77	79	79	79	79	80	80	80	81	84	84	88	92	97	104	107	102	92	82
80	78	81	82	82	82	83	84	83	83	84	86	90	94	99	106	109	103	93	83
100	80	83	85	84	84	85	86	86	86	88	90	94	98	102	109	113	106	96	86
125	82	85	85	85	85	84	85	85	87	89	91	95	98	103	106	113	108	98	88
160	84	87	87	85	84	85	85	86	89	91	93	96	101	105	107	115	111	101	91
200	85	88	85	86	84	84	85	86	87	89	92	94	99	104	108	110	108	98	88
250	84	86	87	88	86	86	89	86	86	87	89	92	96	100	106	101	105	95	85
315	83	87	86	88	84	87	87	85	84	85	88	91	95	99	102	104	100	90	80
400	84	86	88	86	83	82	83	79	80	84	85	90	93	95	97	102	95	85	75
500	84	85	86	86	82	82	82	79	81	84	83	90	92	93	96	99	91	81	71
630	84	84	86	85	82	82	82	80	82	85	84	91	91	92	94	96	89	79	69
800	83	84	86	84	82	82	81	80	82	85	85	91	91	91	92	93	87	77	67
1000	84	86	86	84	82	82	81	80	81	84	85	90	89	90	90	92	85	75	65
1250	84	87	85	84	83	83	81	80	81	84	85	89	88	89	88	90	82	72	62
1600	92	90	88	87	85	85	83	81	81	85	85	89	88	88	87	88	81	71	61
2000	97	91	88	87	84	85	82	83	83	85	85	89	87	86	87	86	81	71	61
2500	91	91	90	89	86	86	83	83	82	83	85	87	86	84	84	83	78	68	58
3150	97	98	98	97	95	93	90	91	88	87	87	89	87	85	86	85	82	72	62
4000	95	95	95	94	94	93	90	93	90	89	89	91	88	86	86	86	82	72	62
5000	89	89	89	89	87	87	85	87	84	84	84	87	84	82	82	81	77	67	57
6300	88	89	88	87	86	85	82	85	82	82	82	84	82	80	81	79	74	64	54
8000	83	84	84	83	82	82	79	83	80	81	80	83	80	78	79	78	73	63	53
10000	80	81	80	79	79	78	75	79	77	78	77	80	78	75	76	75	69	59	49
OVERALL	103	103	103	102	100	100	99	99	98	100	101	105	107	111	116	120	116	106	96

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
ENG RUNUP 85% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 03
AIRCRAFT CODE 511
OPERATION CODE 01018
PROFILE VERSION A
14 APR 76
PAGE D3

DISTANCE (FEET)	ANGLE (DEGREES)																	
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	119.7	120.6	120.1	119.6	117.4	116.7	114.6	115.9	114.3	114.4	115.0	117.8	117.4	118.9	121.9	124.6	120.6	110.5	100.4
250	117.4	118.3	117.3	117.3	115.1	114.4	112.3	113.5	112.0	112.1	112.7	115.5	115.2	116.8	119.8	122.5	118.5	108.5	98.3
315	115.1	116.0	115.4	114.9	113.6	112.1	110.0	111.1	109.6	109.7	110.3	113.2	112.9	114.6	117.6	120.4	116.4	106.3	96.2
400	112.6	113.5	113.0	112.5	110.3	109.6	107.5	108.6	107.1	107.2	107.9	110.7	110.5	112.4	115.4	118.2	114.2	104.1	93.9
500	110.1	111.0	110.4	109.9	107.8	107.0	105.0	105.9	104.4	104.6	105.3	108.2	107.9	110.0	113.0	115.9	111.8	101.7	91.5
630	107.4	108.3	107.7	107.2	105.0	104.3	102.3	103.0	101.6	101.8	102.5	105.4	105.3	107.5	110.5	113.4	109.3	99.2	88.9
800	104.5	105.4	104.8	104.3	102.1	101.4	99.4	100.0	98.6	98.8	99.6	102.5	102.6	104.8	107.9	110.8	106.7	96.5	86.2
1000	101.4	102.3	101.7	101.2	99.0	98.3	96.3	96.6	95.3	95.8	96.4	99.5	99.7	102.0	105.1	108.0	103.9	93.6	83.3
1250	98.1	98.9	98.4	97.9	95.7	95.0	93.0	93.1	91.9	92.4	93.1	96.2	96.5	98.9	102.0	105.0	100.8	90.5	79.9
1600	94.5	95.3	94.7	94.2	92.0	91.3	89.3	89.4	88.2	88.8	89.5	92.7	93.3	95.5	98.7	101.7	97.4	87.1	76.3
2000	90.9	91.3	90.7	90.2	87.9	87.2	85.3	85.3	84.2	84.9	85.6	89.2	90.0	92.0	95.0	98.1	93.7	83.3	72.3
2500	87.0	86.8	86.3	85.7	83.4	82.7	80.9	80.8	79.7	80.6	81.4	85.2	86.0	88.0	90.9	94.0	89.5	78.8	67.8
3150	82.6	81.7	81.2	80.7	78.3	77.7	75.9	75.6	74.7	76.1	76.9	81.0	81.8	83.6	86.4	89.5	84.7	73.8	62.7
4000	77.8	76.0	75.5	74.9	72.5	71.9	70.2	69.8	69.1	71.2	72.1	76.5	77.3	78.7	81.6	84.4	79.1	68.1	56.8
5000	72.4	70.1	69.1	68.5	66.1	66.0	64.6	63.6	63.7	66.2	67.0	71.7	72.4	73.8	76.7	79.2	73.7	62.6	50.7
6300	66.4	64.5	63.4	62.4	60.1	60.2	58.9	57.4	58.2	60.9	61.3	66.6	67.2	68.7	71.6	74.1	68.3	57.0	44.5
8000	60.0	58.7	58.0	57.0	54.3	54.5	53.6	52.1	53.2	56.2	56.6	62.1	63.1	64.8	67.9	70.6	64.8	53.1	39.9
10000	52.8	52.3	52.7	51.8	48.5	48.4	48.1	46.2	47.4	51.0	51.4	57.5	58.6	60.6	63.9	66.7	61.2	48.9	34.7
12500	45.0	45.9	46.7	45.9	42.0	42.2	42.1	39.8	41.4	45.0	45.4	52.1	53.8	56.1	59.6	62.6	57.5	44.3	28.7
16000	38.0	38.9	39.9	39.4	35.0	35.0	35.1	32.3	34.6	38.0	38.5	46.2	48.5	51.1	54.9	58.5	53.4	39.1	20.7
20000	29.5	30.7	32.5	32.1	26.6	27.0	27.3	22.6	24.9	30.9	31.0	39.4	42.0	45.0	49.4	54.3	49.0	33.8	8.4
25000	18.1	20.1	22.2	21.7	13.4	14.4	14.5	12.9	9.9	17.4	18.4	31.6	35.0	38.4	43.4	43.4	43.7	27.0	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 03
AIRCRAFT CODE 511
OPERATION CODE 01018
PROFILE VERSION A
14 APR 76
PAGE E3

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
ENG RUNUP 85% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	121.7	122.4	121.8	121.5	119.1	118.0	115.8	117.5	116.0	115.5	116.1	117.8	117.4	118.9	122.4	125.6	120.6	110.5	100.4
250	119.4	120.1	119.5	119.2	116.8	115.7	113.5	115.2	113.6	113.2	113.8	115.5	115.2	116.8	120.3	123.5	118.5	108.5	98.3
315	117.0	117.8	117.2	116.8	114.5	113.3	111.2	112.8	111.2	110.8	111.5	113.2	112.9	114.6	118.1	121.4	116.4	106.3	96.2
400	114.6	115.3	114.7	114.4	112.0	110.9	108.8	110.2	108.7	108.3	109.0	110.7	110.5	112.4	115.9	119.2	114.2	104.1	93.9
500	112.0	112.7	112.2	111.8	109.4	108.3	106.2	107.6	106.1	105.7	106.4	108.2	107.9	110.0	113.5	116.9	111.8	101.7	91.5
630	109.3	110.0	109.5	109.1	106.7	105.6	103.5	104.7	103.3	102.9	103.6	105.4	105.3	107.5	111.0	114.4	109.3	99.2	88.9
800	106.4	107.2	106.6	106.3	103.8	102.7	100.6	101.6	100.2	99.9	100.7	102.5	102.6	104.8	108.4	111.8	106.7	96.5	86.2
1000	103.3	104.1	103.5	103.2	100.7	99.6	97.6	98.3	97.0	96.9	97.5	99.5	99.7	102.0	105.6	109.0	103.9	93.6	83.3
1250	100.0	100.7	100.1	99.8	97.3	96.2	94.2	94.8	93.5	93.5	94.2	96.2	96.5	98.9	102.5	106.0	100.8	90.5	79.9
1600	96.4	97.1	96.5	96.1	93.6	92.6	90.6	91.1	89.8	89.9	90.6	92.7	93.3	95.5	99.2	102.7	97.4	87.1	76.3
2000	92.8	93.0	92.5	92.1	89.6	88.5	86.6	87.0	85.8	86.0	86.7	89.2	90.0	92.0	95.5	99.1	93.7	83.3	72.3
2500	88.9	88.5	88.0	87.6	85.1	84.0	82.1	82.4	81.4	81.7	82.5	85.2	86.0	88.0	91.4	95.0	89.5	78.8	67.8
3150	84.6	83.5	83.0	82.6	80.0	79.0	77.1	77.3	76.4	77.2	78.1	81.0	81.8	83.6	86.9	90.5	84.7	73.8	62.7
4000	79.3	77.5	76.9	76.5	73.9	73.0	71.1	71.2	70.5	72.1	73.0	76.5	77.3	78.7	82.0	85.2	79.1	68.1	56.8
5000	73.6	71.2	70.2	69.7	67.1	66.8	65.4	64.6	64.6	66.8	67.6	71.7	72.4	73.8	77.0	79.8	73.7	62.6	50.7
6300	67.2	65.2	64.1	63.2	60.8	60.7	59.4	58.1	58.8	61.3	61.8	66.6	67.2	68.7	71.8	74.5	68.3	57.0	44.5
8000	60.4	59.0	58.3	57.4	54.7	54.7	53.8	52.4	53.6	56.4	56.8	62.1	63.1	64.8	68.0	70.8	64.8	53.1	39.9
10000	52.8	52.3	52.7	51.8	48.5	48.4	48.1	46.2	47.4	51.0	51.4	57.5	58.6	60.6	63.9	66.7	61.2	48.9	34.7
12500	45.0	45.9	46.7	45.9	42.0	42.2	42.1	39.8	41.4	45.0	45.4	52.1	53.8	56.1	59.6	62.6	57.5	44.3	28.7
16000	38.0	38.9	39.9	39.4	35.0	35.0	35.1	32.3	34.6	38.0	38.5	46.2	48.5	51.1	54.9	58.5	53.4	39.1	20.7
20000	29.5	30.7	32.5	32.1	26.6	27.0	27.3	22.6	24.9	30.9	31.0	39.4	42.0	45.0	49.4	54.3	49.0	33.8	8.4
25000	18.1	20.1	22.2	21.7	13.4	14.4	14.5	12.9	9.9	17.4	18.4	31.6	35.0	38.4	43.4	49.4	43.7	27.0	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 03
AIRCRAFT CODE 511
OPERATION CODE 01018
PROFILE VERSION A
14 APR 76
PAGE F3

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
ENG RUNUP 85% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	105.9	105.6	104.9	104.3	102.4	101.8	99.3	100.4	98.5	98.9	99.5	102.8	102.7	104.1	106.7	109.3	105.7	95.7	85.7
250	103.6	103.3	102.6	102.0	100.1	99.5	97.0	98.0	96.2	96.7	97.2	100.6	100.6	102.0	104.7	107.2	103.7	93.7	83.7
315	101.3	100.9	100.2	99.6	97.7	97.1	94.7	95.6	93.8	94.4	94.9	98.4	98.4	99.9	102.6	105.2	101.6	91.6	81.6
400	98.9	98.5	97.8	97.2	95.2	94.6	92.2	93.1	91.4	92.0	92.6	96.1	96.2	97.8	100.5	103.1	99.5	89.5	79.5
500	96.4	96.0	95.2	94.6	92.6	92.0	89.7	90.4	88.8	89.6	90.1	93.8	93.9	95.5	98.2	100.8	97.2	87.2	77.2
630	93.8	93.3	92.5	91.9	89.9	89.3	87.0	87.7	86.1	87.0	87.6	91.3	91.6	93.2	95.9	98.5	94.8	84.8	74.8
800	91.1	90.5	89.7	89.1	87.0	86.4	84.2	84.7	83.3	84.4	85.0	88.8	88.1	90.7	93.4	96.1	92.2	82.2	72.2
1000	88.2	87.5	86.7	86.1	84.0	83.4	81.3	81.6	80.4	81.7	82.3	86.3	86.6	88.2	90.9	93.5	89.5	79.5	69.5
1250	85.2	84.4	83.6	82.9	80.7	80.2	78.2	78.3	77.3	78.8	79.4	83.6	84.0	85.5	88.1	90.8	86.5	76.5	66.5
1600	82.0	81.1	80.2	79.5	77.3	76.8	75.0	74.8	74.1	75.9	76.4	80.8	81.2	82.7	85.1	87.9	83.4	73.4	63.4
2000	78.5	77.5	76.7	75.9	73.6	73.2	71.6	71.1	70.7	72.8	73.3	77.9	78.4	79.8	82.1	84.9	80.0	70.0	60.0
2500	74.8	73.7	72.9	72.1	69.7	69.5	68.0	67.2	67.2	69.6	70.0	74.9	75.3	76.5	78.7	81.4	76.2	66.2	56.2
3150	70.9	69.6	69.0	68.1	65.7	65.5	64.2	63.2	63.6	66.2	66.6	71.6	71.9	73.0	74.9	77.6	72.1	62.1	52.1
4000	66.5	65.3	64.8	63.8	61.4	61.3	60.2	59.0	59.7	62.5	62.8	68.0	68.2	69.1	70.9	73.4	67.5	57.5	47.5
5000	61.8	60.7	60.3	59.3	56.9	56.9	55.9	54.6	55.5	58.4	58.6	63.9	64.1	64.9	66.6	69.0	62.9	52.9	42.9
6300	56.6	55.8	55.6	54.6	52.2	52.2	51.3	49.9	51.0	54.0	54.2	59.6	59.7	60.5	62.1	64.4	58.3	48.3	38.3
8000	51.2	51.0	51.3	50.2	47.7	47.7	47.0	45.6	46.7	49.8	49.9	55.5	55.7	56.7	58.5	61.0	55.0	45.0	35.0
10000	45.7	46.0	46.6	45.6	43.0	43.0	42.5	40.9	42.2	45.3	45.3	51.1	51.5	52.6	54.7	57.4	51.7	41.7	31.7
12500	40.1	40.8	41.7	40.8	38.0	38.0	37.7	36.0	37.4	40.4	40.3	46.3	46.9	48.3	50.7	53.5	48.1	38.1	28.1
16000	34.5	35.2	36.4	35.6	32.6	32.7	32.6	30.7	32.1	35.1	35.1	41.0	42.0	43.7	46.5	49.5	44.5	34.5	24.5
20000	28.5	29.4	30.7	29.9	26.9	27.0	27.1	25.1	26.5	29.3	29.5	35.3	36.8	39.0	42.1	45.4	40.8	30.8	20.8
25000	22.2	23.3	24.6	23.9	20.9	21.0	21.4	19.4	20.7	23.2	23.8	29.3	31.4	34.1	37.6	41.1	36.9	26.9	16.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 03
AIRCRAFT CODE 511
OPERATION CODE 01018
PROFILE VERSION A
14 APR 76
PAGE 63

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
ENG RUNUP 85% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	n	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	107.8	107.3	106.6	106.2	104.1	103.1	100.5	102.0	100.2	100.0	100.6	102.8	102.7	104.1	107.2	110.3	105.7	95.7	85.7
250	105.5	105.1	104.3	103.9	101.8	100.8	98.2	99.7	97.9	97.8	98.3	100.6	100.6	102.0	105.2	108.2	103.7	93.7	83.7
315	103.2	102.7	102.0	101.6	99.4	98.4	95.9	97.3	95.5	95.5	96.0	98.4	98.4	99.9	103.1	106.2	101.6	91.6	81.6
400	100.8	100.3	99.5	99.1	96.9	95.9	93.4	94.7	93.0	93.1	93.7	96.1	96.2	97.8	101.0	104.1	99.5	89.5	79.5
500	98.3	97.7	97.0	96.5	94.3	93.3	90.9	92.1	90.5	90.6	91.2	93.8	93.9	95.5	98.7	101.8	97.2	87.2	77.2
630	95.7	95.1	94.3	93.9	91.6	90.6	88.2	89.3	87.8	88.1	88.7	91.3	91.6	93.2	96.4	99.5	94.8	84.8	74.8
800	93.0	92.3	91.5	91.0	88.7	87.7	85.5	86.4	85.0	85.5	86.1	88.8	89.1	90.7	93.9	97.1	92.2	82.2	72.2
1000	90.1	89.3	88.5	88.0	85.6	84.7	82.5	83.3	82.1	82.8	83.4	86.3	86.6	88.2	91.4	94.5	89.5	79.5	69.5
1250	87.1	86.2	85.3	84.8	82.4	81.5	79.4	80.0	79.0	79.9	80.5	83.6	84.0	85.5	88.6	91.8	86.5	76.5	66.5
1600	83.9	82.8	82.0	81.5	78.9	78.1	76.2	76.5	75.7	77.0	77.5	80.8	81.2	82.7	85.6	88.9	83.4	73.4	63.4
2000	80.5	79.3	78.4	77.9	75.3	74.5	72.8	72.8	72.4	73.9	74.4	77.9	78.4	79.8	82.6	85.9	80.0	70.0	60.0
2500	76.8	75.5	74.7	74.1	71.4	70.7	69.2	68.9	68.9	70.7	71.2	74.9	75.3	76.5	79.2	82.4	76.2	66.2	56.2
3150	72.8	71.4	70.7	70.0	67.4	66.8	65.4	64.9	65.2	67.3	67.7	71.6	71.9	73.0	75.4	78.6	72.1	62.1	52.1
4000	68.1	66.7	66.2	65.4	62.8	62.4	61.2	60.4	61.0	63.4	63.7	68.0	68.2	69.1	71.3	74.2	67.5	57.5	47.5
5000	62.9	61.8	61.4	60.5	57.9	57.7	56.6	55.6	56.5	59.1	59.3	63.9	64.-	64.9	66.9	69.6	62.9	52.9	42.9
6300	57.3	56.5	56.3	55.3	52.8	52.7	51.8	50.6	51.6	54.4	54.6	59.6	59.7	60.5	62.3	64.8	58.3	48.3	38.3
8000	51.6	51.4	51.6	50.6	48.0	48.0	47.3	45.9	47.1	50.0	50.1	55.5	55.7	56.7	58.6	61.2	55.0	45.0	35.0
10000	45.7	46.0	46.6	45.6	43.0	43.0	42.5	40.9	42.2	45.3	45.3	51.1	51.5	52.6	54.7	57.4	51.7	41.7	31.7
12500	40.1	40.8	41.7	40.8	38.0	38.0	37.7	36.0	37.4	40.4	40.3	46.3	46.9	48.3	50.7	53.5	48.1	38.1	28.1
16000	34.5	35.2	36.4	35.6	32.6	32.7	32.6	30.7	32.1	35.1	35.1	41.0	42.0	43.7	46.5	49.5	44.5	34.5	24.5
20000	28.5	29.4	30.7	29.9	26.9	27.0	27.1	25.1	26.5	29.3	29.5	35.3	36.8	39.0	42.1	45.4	40.8	30.8	20.8
25000	22.2	23.3	24.6	23.9	20.9	21.0	21.4	19.4	20.7	23.2	23.8	29.3	31.4	34.1	37.6	41.1	36.9	26.9	16.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

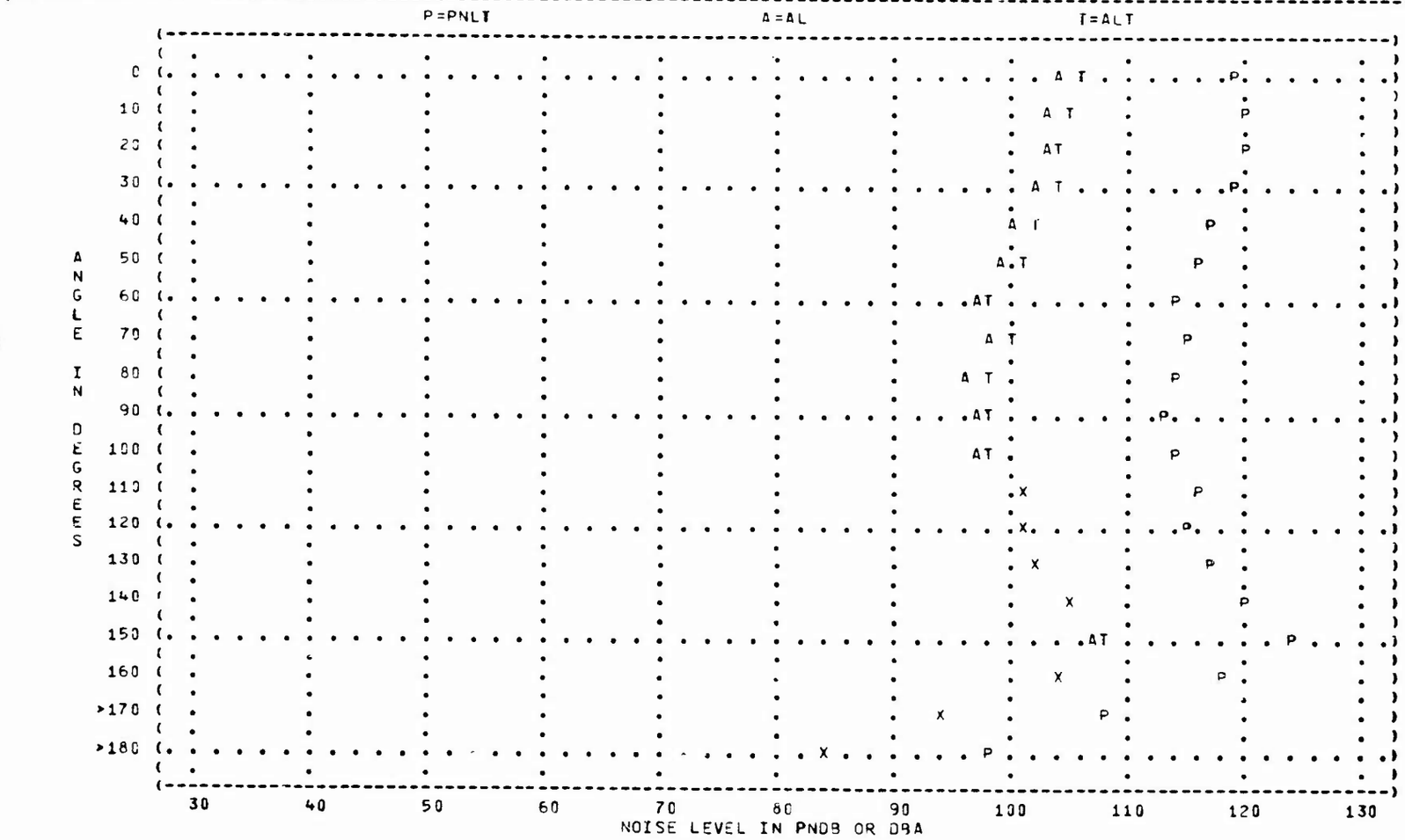
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
ENG RUNUP 85% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 03
AIRCRAFT CODE 511
OPERATION CODE 01018
PROFILE VERSION A
14 APR 76
PAGE J3



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 04
AIRCRAFT CODE 511
OPERATION CODE 01004
PROFILE VERSION A
14 APR 76
PAGE C4

NOISE SOURCE/SUBJECT:
F-1110 AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
MIL PWR, 95% RPM, F-1110
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	77	77	79	80	80	81	84	83	87	88	90	92	98	103	109	111	107	97	87
63	80	80	83	83	83	83	85	86	89	89	92	95	100	106	113	115	109	99	89
80	83	83	86	86	86	87	88	89	91	92	93	97	102	109	115	118	112	102	92
100	85	88	88	88	87	89	90	90	93	95	97	100	105	112	119	121	116	106	96
125	87	89	90	90	88	89	90	92	94	96	97	101	107	112	116	121	117	107	97
160	91	92	92	91	90	90	91	93	96	97	100	103	110	117	116	123	119	109	99
200	90	92	91	90	90	90	91	91	92	96	99	102	109	118	118	120	118	108	98
250	87	89	92	92	90	90	92	93	92	94	99	101	108	114	119	117	119	109	99
315	87	91	94	92	90	91	91	91	92	93	95	99	106	113	118	120	118	108	98
400	89	90	93	93	90	90	89	90	91	93	95	99	104	110	115	120	117	107	97
500	97	96	102	96	91	91	90	91	94	96	94	100	104	108	115	117	117	107	97
630	90	94	95	95	93	91	90	91	93	96	96	101	104	107	114	116	113	103	93
800	87	93	95	95	94	93	92	92	94	96	97	101	104	106	113	115	111	101	91
1000	85	90	92	93	94	93	93	93	94	96	97	100	103	106	111	114	109	99	89
1250	84	88	90	91	92	92	92	93	94	96	97	100	103	104	110	112	107	97	87
1600	91	89	90	90	91	93	92	93	94	96	98	100	103	104	110	111	106	96	86
2000	96	91	88	88	87	89	89	90	94	96	98	101	102	104	108	110	105	95	85
2500	87	84	85	85	86	88	88	89	93	95	97	99	100	102	106	108	103	93	83
3150	85	83	85	85	86	87	88	90	94	95	98	100	101	102	106	108	103	93	83
4000	90	83	84	85	86	86	88	88	93	95	97	99	101	102	105	107	102	92	82
5000	84	80	82	83	84	85	86	86	91	92	94	95	98	99	102	105	99	89	79
6300	83	77	79	80	81	82	83	83	89	90	93	94	96	98	102	105	98	88	78
8000	79	74	75	76	77	78	79	80	87	88	90	92	94	96	101	105	96	86	76
10000	75	71	72	73	74	75	76	76	84	85	87	89	91	94	101	104	95	85	75
OVERALL	103	103	106	104	103	103	103	104	106	108	110	113	118	124	128	130	127	117	107

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
MIL PWR, 95% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 04
AIRCRAFT CODE 511
OPERATION CODE 01004
PROFILE VERSION A
14 APR 76
PAGE D4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	117.5	115.1	117.1	115.2	115.1	116.0	116.5	117.4	120.9	122.5	124.7	127.1	129.8	133.3	137.3	139.7	136.1	126.1	116.1
250	115.3	112.9	114.9	113.0	112.9	113.7	114.2	115.2	118.6	120.3	122.4	124.9	127.6	131.1	135.1	137.5	134.0	124.0	113.9
315	113.0	110.6	112.8	110.8	110.7	111.5	111.9	112.9	116.3	118.0	120.1	122.6	125.3	129.0	132.9	135.4	131.8	121.8	111.8
400	110.7	108.4	110.6	108.6	108.4	109.2	109.5	110.5	113.9	115.6	117.7	120.2	122.9	126.7	130.7	133.1	129.6	119.6	109.6
500	108.3	106.0	108.3	106.3	106.0	106.8	107.0	108.0	111.4	113.0	115.2	117.7	120.5	124.3	128.4	130.8	127.4	117.3	107.3
630	105.8	103.5	105.9	103.9	103.5	104.3	104.5	105.4	108.7	110.4	112.5	115.1	117.9	121.7	125.9	128.4	125.0	115.0	104.9
800	103.1	100.9	103.5	101.4	100.9	101.7	101.9	102.7	105.9	107.6	109.7	112.3	115.1	119.1	123.4	125.9	122.6	112.5	102.4
1000	100.4	98.2	101.0	98.8	98.2	99.0	99.1	99.9	102.9	104.7	106.7	109.4	112.2	116.2	120.8	123.4	120.0	110.0	99.8
1250	97.4	95.3	98.3	96.0	95.3	96.1	96.2	96.9	99.7	101.7	103.5	106.4	109.3	113.2	117.8	120.6	117.1	107.0	96.9
1600	94.2	92.2	95.5	93.1	92.2	92.9	93.0	93.8	96.5	98.4	100.1	103.2	106.0	109.9	114.9	117.7	114.3	104.2	94.0
2000	90.8	89.2	92.6	90.1	88.9	89.6	89.6	90.4	92.9	94.9	96.6	99.7	102.6	106.6	111.8	114.7	111.3	101.1	90.9
2500	87.0	85.8	89.4	86.7	85.2	85.9	85.9	86.7	89.1	91.1	92.7	95.9	98.8	102.7	108.4	110.9	107.8	97.6	87.3
3150	82.8	82.0	85.6	82.9	81.5	81.9	81.9	82.6	84.8	86.8	88.4	91.6	94.6	98.5	104.4	106.6	103.8	93.6	83.3
4000	78.1	77.7	81.4	78.5	77.4	77.5	77.4	78.1	80.1	82.1	83.6	86.9	90.2	93.9	100.0	102.0	99.4	89.2	78.9
5000	73.0	73.0	76.8	73.9	72.9	72.6	72.5	73.2	75.1	77.2	78.5	81.8	85.4	89.1	95.2	97.2	94.7	84.4	74.1
6300	68.0	68.1	72.0	68.9	68.1	67.5	67.3	67.9	69.8	72.0	73.1	76.7	80.3	84.1	90.3	92.3	89.8	79.5	69.2
8000	63.9	64.1	68.1	64.9	63.6	63.0	62.6	63.0	65.1	67.4	68.6	72.3	76.2	80.2	86.4	88.5	86.1	75.8	65.3
10000	59.4	59.8	64.0	60.6	58.8	58.0	57.5	58.0	60.3	62.6	63.6	67.5	71.7	76.1	82.4	84.5	82.2	71.8	61.2
12500	54.5	54.9	59.3	55.8	53.3	52.5	51.9	52.8	55.2	57.5	58.2	62.6	67.0	71.7	78.1	80.2	78.0	67.5	56.7
16000	49.1	49.6	54.3	50.5	47.4	46.5	45.9	46.8	49.7	51.8	52.1	57.1	61.9	66.9	73.4	75.5	73.3	62.7	51.6
20000	42.9	43.3	48.5	44.3	40.0	39.7	39.0	39.8	42.9	45.4	45.6	51.3	56.4	61.7	68.2	70.4	68.2	57.4	45.9
25000	35.0	35.1	41.5	36.6	31.5	31.4	30.4	31.3	35.1	37.8	38.2	44.2	50.1	55.8	62.5	64.8	62.6	51.3	38.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
MIL PWR, 95% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
PE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 04
AIRCRAFT CODE 511
OPERATION CODE 01004
PROFILE VERSION A
14 APR 76
PAGE E4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	120.0	116.7	119.5	115.2	115.1	116.0	116.5	117.4	120.9	122.5	124.7	127.1	129.8	133.3	137.8	139.7	136.1	126.1	116.1
250	117.8	114.5	117.4	113.0	112.9	113.7	114.2	115.2	118.6	120.3	122.4	124.9	127.6	131.1	135.7	137.5	134.0	124.0	113.9
315	115.6	112.3	115.2	110.8	110.7	111.5	111.9	112.9	116.3	118.3	120.1	122.6	125.3	129.0	133.5	135.4	131.8	121.8	111.8
400	113.2	110.0	113.0	108.6	108.4	109.2	109.5	110.5	113.9	115.6	117.7	120.2	122.9	126.7	131.3	133.1	129.6	119.6	109.6
500	110.8	107.6	110.7	106.3	106.0	106.8	107.0	108.0	111.4	113.0	115.2	117.7	120.5	124.3	129.0	130.8	127.4	117.3	107.3
630	108.3	105.1	108.4	103.9	103.5	104.3	104.5	105.4	108.7	110.4	112.5	115.1	117.9	121.7	126.4	128.4	125.0	115.0	104.9
800	105.7	102.6	105.9	101.4	100.9	101.7	101.9	102.7	105.9	107.6	109.7	112.3	115.1	119.1	124.0	125.9	122.6	112.5	102.4
1000	102.9	99.8	103.4	98.8	98.2	99.0	99.1	99.9	102.9	104.7	106.7	109.4	112.2	116.2	121.3	123.4	120.0	110.0	99.8
1250	99.9	96.9	100.7	96.0	95.3	96.1	96.2	96.9	99.7	101.7	103.5	106.4	109.3	113.2	118.4	120.6	117.1	107.0	96.9
1600	96.7	93.8	97.9	93.1	92.2	92.9	93.0	93.8	96.5	98.4	100.1	103.2	106.0	109.9	115.5	117.7	114.3	104.2	94.0
2000	93.3	90.8	95.0	90.1	88.9	89.6	89.6	90.4	92.9	94.9	96.6	99.7	102.6	106.6	112.4	114.7	111.3	101.1	90.9
2500	89.6	87.5	91.8	86.7	85.2	85.9	85.9	86.7	89.1	91.1	92.7	95.9	98.8	102.7	108.9	110.9	107.8	97.6	87.3
3150	85.4	83.6	88.0	82.9	81.5	81.9	81.9	82.6	84.8	86.8	88.4	91.6	94.6	98.5	105.0	106.6	103.8	93.6	83.3
4000	80.2	79.0	83.3	78.5	77.4	77.5	77.4	78.1	80.1	82.1	83.6	86.9	90.2	93.9	100.4	102.0	99.4	89.2	78.9
5000	74.6	74.0	78.2	73.9	72.9	72.6	72.5	73.2	75.1	77.2	78.5	81.8	85.4	89.1	95.5	97.2	94.7	84.4	74.1
6300	69.0	68.7	72.9	68.9	68.1	67.5	67.3	67.9	69.8	72.0	73.1	76.7	80.3	84.1	90.5	92.3	89.8	79.5	69.2
8000	64.4	64.4	68.6	64.9	63.6	63.0	62.6	63.0	65.1	67.4	68.6	72.3	76.2	80.2	86.6	88.5	86.1	75.8	65.3
10000	59.4	59.8	64.0	60.6	58.8	58.0	57.5	58.0	60.3	62.6	63.6	67.6	71.7	76.1	82.4	84.5	82.2	71.8	61.2
12500	54.5	54.9	59.3	55.8	53.3	52.5	51.9	52.8	55.2	57.5	58.2	62.6	67.0	71.7	78.1	80.2	78.0	67.5	56.7
16000	49.1	49.6	54.3	50.5	47.4	46.5	45.9	46.8	49.7	51.8	52.1	57.1	61.9	66.9	73.4	75.5	73.3	62.7	51.6
20000	42.9	43.3	48.5	44.3	40.0	39.7	39.0	39.8	42.9	45.4	45.6	51.3	56.4	61.7	68.2	70.4	68.2	57.4	45.9
25000	35.0	35.1	41.5	36.6	31.5	31.4	30.4	31.3	35.1	37.8	38.2	44.2	50.1	55.8	62.5	64.8	62.6	51.3	38.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
MIL PWR, 95% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 04
AIRCRAFT CODE 511
OPERATION CODE 01004
PROFILE VERSION A
14 APR 76

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	103.7	102.5	105.0	103.8	103.3	103.4	103.4	104.1	106.8	108.7	110.3	113.1	115.7	119.0	124.0	126.1	123.1	113.1	103.1
250	101.5	100.4	103.0	101.7	101.1	101.2	101.2	101.9	104.6	106.5	108.1	110.9	113.6	116.9	121.9	124.0	121.0	111.0	101.0
315	99.3	98.3	100.9	99.5	99.0	99.1	99.0	99.7	102.4	104.2	105.8	108.6	111.4	114.7	119.7	121.9	118.9	108.9	98.9
400	97.1	96.1	98.7	97.4	96.8	96.9	96.8	97.5	100.1	102.0	103.5	106.4	109.2	112.6	117.6	119.7	116.8	106.8	96.8
500	94.8	93.9	96.6	95.2	94.6	94.6	94.5	95.2	97.7	99.6	101.1	104.1	106.9	110.3	115.4	117.5	114.6	104.6	94.6
630	92.4	91.7	94.4	93.0	92.3	92.3	92.2	92.9	95.3	97.2	98.6	101.7	104.5	108.0	113.1	115.3	112.4	102.4	92.4
800	90.0	89.4	92.2	90.7	90.0	89.9	89.8	90.4	92.8	94.7	96.1	99.2	102.1	105.6	110.8	112.9	110.1	100.1	90.1
1000	87.4	87.1	89.9	88.3	87.6	87.5	87.3	88.0	90.2	92.2	93.5	96.6	99.6	103.1	108.4	110.6	107.8	97.8	87.8
1250	84.8	84.6	87.5	85.9	85.1	84.9	84.7	85.4	87.5	89.5	90.7	94.0	97.0	100.4	105.6	108.1	105.3	95.3	85.3
1600	82.1	82.1	85.1	83.4	82.6	82.3	82.1	82.7	84.7	86.7	87.9	91.2	94.3	97.7	103.2	105.5	102.7	92.7	82.7
2000	79.3	79.5	82.6	80.8	79.9	79.5	79.2	79.8	81.8	83.9	84.9	88.4	91.4	94.8	100.5	102.8	100.0	90.0	80.0
2500	76.2	76.7	79.9	78.0	77.0	76.6	76.2	76.8	78.7	80.8	81.7	85.3	88.4	91.6	97.5	99.8	97.0	87.0	77.0
3150	72.7	73.5	76.7	74.9	73.9	73.3	73.0	73.5	75.4	77.5	78.3	82.0	85.1	88.2	94.2	96.4	93.6	83.6	73.6
4000	68.8	70.0	73.1	71.4	70.5	69.8	69.5	70.0	71.7	73.9	74.6	78.3	81.4	84.4	90.5	92.7	89.8	79.8	69.8
5000	64.5	65.9	69.1	67.4	66.6	65.9	65.5	66.0	67.6	69.9	70.5	74.2	77.4	80.3	86.4	88.6	85.6	75.6	65.6
6300	59.8	61.6	64.8	63.1	62.3	61.5	61.2	61.6	63.2	65.5	66.0	69.8	73.0	75.9	82.1	84.2	81.2	71.2	61.2
8000	55.8	57.7	61.1	59.2	58.2	57.3	56.8	57.3	58.9	61.2	61.7	65.6	68.9	71.9	78.2	80.4	77.6	67.6	57.6
10000	51.7	53.6	57.1	55.0	53.7	52.6	52.1	52.6	54.3	56.6	57.0	61.0	64.5	67.7	74.1	76.2	73.6	63.6	53.6
12500	47.4	49.0	52.8	50.3	48.7	47.5	47.0	47.5	49.3	51.6	51.9	56.1	59.7	63.2	69.6	71.8	69.4	59.4	49.4
16000	42.7	44.0	47.9	45.1	43.1	42.0	41.4	41.9	43.9	46.2	46.3	50.7	54.5	58.4	64.7	66.9	64.7	54.7	44.7
20000	37.4	38.4	42.5	39.4	37.0	35.9	35.3	35.9	38.0	40.2	40.4	44.9	48.9	53.3	59.4	61.7	59.6	49.6	39.6
25000	31.6	32.2	36.5	33.1	30.3	29.4	28.8	29.5	31.6	33.8	34.0	38.6	43.0	47.9	53.6	56.0	54.0	44.0	34.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 04
AIRCRAFT CODE 511
OPERATION CODE 01004
PROFILE VERSION A
14 APR 76
PAGE G4

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
MIL PWR, 95% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	106.2	104.1	107.5	103.8	103.3	103.4	103.4	104.1	106.8	108.7	110.3	113.1	115.7	119.0	124.5	126.1	123.1	113.1	103.1
250	104.0	102.0	105.4	101.7	101.1	101.2	101.2	101.9	104.6	106.5	108.1	110.9	113.6	116.9	122.4	124.0	121.0	111.0	101.0
315	101.8	99.9	103.3	99.5	99.0	99.1	99.0	99.7	102.4	104.2	105.8	108.6	111.4	114.7	120.3	121.9	118.9	108.9	98.9
400	99.6	97.8	101.2	97.4	96.8	96.9	96.8	97.5	100.1	102.0	103.5	106.4	109.2	112.6	118.2	119.7	116.8	106.8	96.8
500	97.3	95.6	99.0	95.2	94.6	94.6	94.5	95.2	97.7	99.6	101.1	104.1	106.9	110.3	116.0	117.5	114.6	104.6	94.6
630	94.9	93.3	96.8	93.0	92.3	92.3	92.2	92.9	95.3	97.2	98.6	101.7	104.5	108.0	113.7	115.3	112.4	102.4	92.4
800	92.5	91.0	94.6	90.7	90.0	89.9	89.8	90.4	92.8	94.7	96.1	99.2	102.1	105.6	111.4	112.9	110.1	100.1	90.1
1000	90.0	88.7	92.3	88.3	87.6	87.5	87.3	88.0	90.2	92.2	93.5	96.6	99.6	103.1	109.0	110.6	107.8	97.8	87.8
1250	87.4	86.2	90.0	85.9	85.1	84.9	84.7	85.4	87.5	89.5	90.7	94.0	97.0	100.4	106.4	108.1	105.3	95.3	85.3
1600	84.7	83.7	87.5	83.4	82.6	82.3	82.1	82.7	84.7	86.7	87.9	91.2	94.3	97.7	103.8	105.5	102.7	92.7	82.7
2000	81.8	81.1	85.0	80.8	79.9	79.5	79.2	79.8	81.8	83.9	84.9	88.4	91.4	94.8	101.1	102.8	100.0	90.0	80.0
2500	78.8	78.3	82.3	78.0	77.0	76.6	76.2	76.8	78.7	80.8	81.7	85.3	88.4	91.6	98.1	99.8	97.0	87.0	77.0
3150	75.3	75.1	79.1	74.9	73.9	73.3	73.0	73.5	75.4	77.5	78.3	82.0	85.1	88.2	94.8	96.4	93.6	83.6	73.6
4000	70.9	71.3	75.1	71.4	70.5	69.8	69.5	70.0	71.7	73.9	74.6	78.3	81.4	84.4	91.0	92.7	89.8	79.8	69.8
5000	66.0	66.9	70.6	67.4	66.6	65.9	65.5	66.0	67.6	69.9	70.5	74.2	77.4	80.3	86.8	88.6	85.6	75.6	65.6
6300	60.8	62.2	65.8	63.1	62.3	61.5	61.2	61.6	63.2	65.5	66.0	69.8	73.0	75.9	82.3	84.2	81.2	71.2	61.2
8000	56.3	58.1	61.6	59.2	58.2	57.3	56.8	57.3	58.9	61.2	61.7	65.6	68.9	71.9	78.3	80.4	77.6	67.6	57.6
10000	51.7	53.6	57.1	55.0	53.7	52.6	52.1	52.6	54.3	56.6	57.0	61.0	64.5	67.7	74.1	76.2	73.6	63.6	53.6
12500	47.4	49.0	52.8	50.3	48.7	47.5	47.0	47.5	49.3	51.6	51.9	56.1	59.7	63.2	69.6	71.8	69.4	59.4	49.4
16000	42.7	44.0	47.9	45.1	43.1	42.0	41.4	41.9	43.9	46.2	46.3	50.7	54.5	58.4	64.7	66.9	64.7	54.7	44.7
20000	37.4	38.4	42.5	39.4	37.0	35.9	35.3	35.9	38.0	40.2	40.4	44.9	48.9	53.3	59.4	61.7	59.6	49.6	39.6
25000	31.6	32.2	36.5	33.1	30.3	29.4	28.8	29.5	31.6	33.8	34.0	38.6	43.0	47.9	53.6	56.0	54.0	44.0	34.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

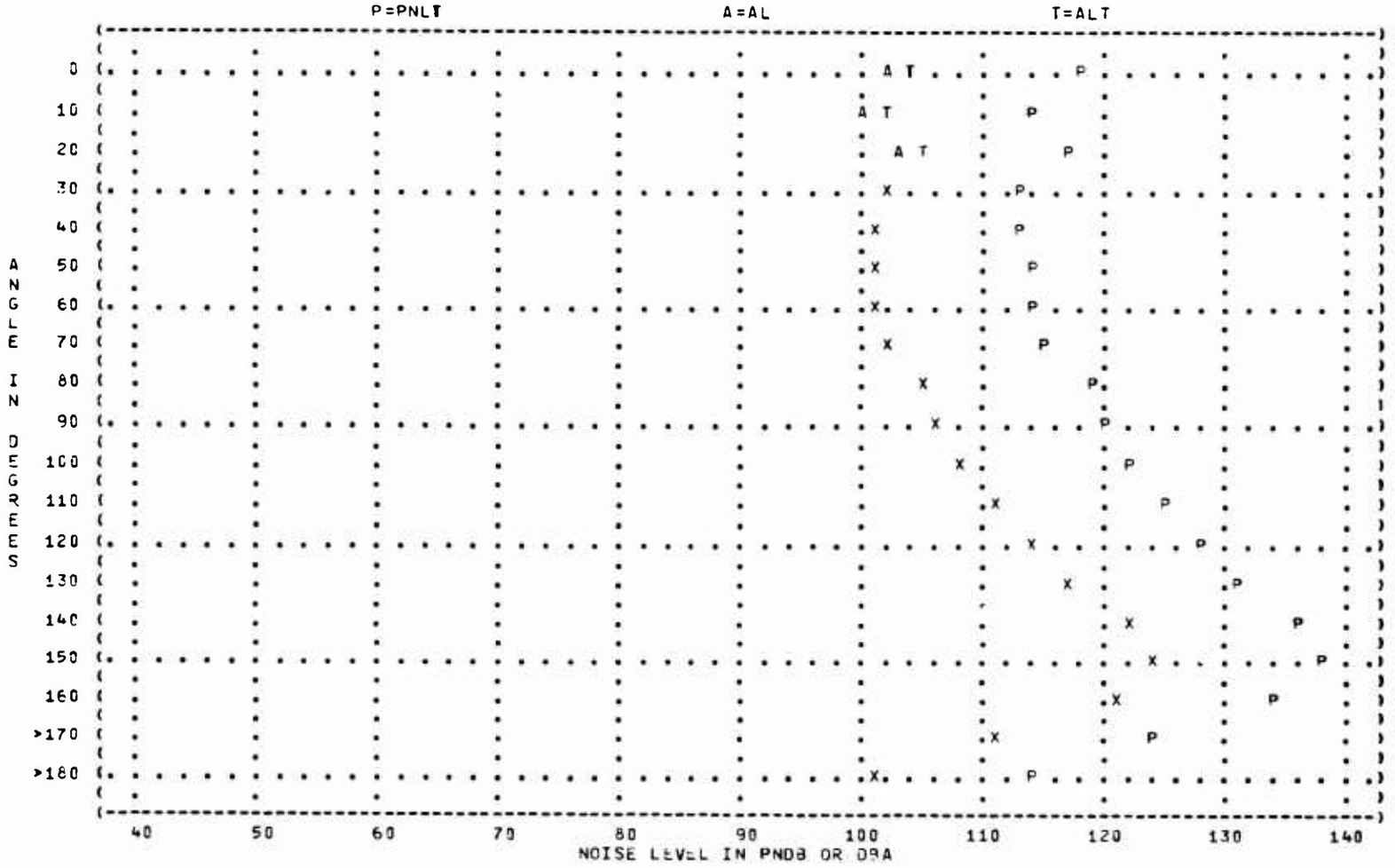
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
MIL PWR, 95% RPM, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

IDENTIFICATION:
OMEGA 6.2
TEST 74-511-001
RUN 04
AIRCRAFT CODE 511
OPERATION CODE 01004
PROFILE VERSION A
14 APR 76
PAGE J4



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 05
AIRCRAFT CODE 511
OPERATION CODE 01002
PROFILE VERSION A
14 APR 76
PAGE 05

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
AFTERBURNER ZONE3, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	89	88	90	90	91	92	92	93	94	95	95	104	110	116	119	117	110	100	90
63	91	90	93	94	93	94	96	96	97	99	101	106	113	120	123	118	112	102	92
80	92	93	96	96	95	97	96	99	99	102	103	109	115	122	125	118	115	105	95
100	93	96	98	97	97	97	99	100	102	104	105	112	116	125	127	123	119	109	99
125	95	98	99	98	98	98	99	99	102	105	107	112	117	121	126	123	119	109	99
160	98	100	99	99	98	99	100	101	102	106	107	115	121	121	125	124	121	111	101
200	97	98	97	99	97	98	99	100	101	105	107	113	120	123	122	122	119	109	99
250	92	94	98	99	97	99	98	99	100	105	106	110	117	123	120	118	116	106	96
315	93	97	100	99	96	98	97	98	99	102	105	110	115	121	119	117	117	107	97
400	93	95	99	99	97	97	97	98	99	102	104	110	114	118	117	115	114	104	94
500	93	95	98	100	97	96	97	98	101	101	106	111	114	118	116	115	112	102	92
630	92	97	98	100	97	96	97	99	102	103	107	112	113	117	115	113	109	99	89
800	89	95	97	99	99	97	99	99	102	103	107	112	114	116	114	113	106	96	86
1000	89	94	96	98	99	98	100	101	103	105	108	112	114	117	114	112	104	94	84
1250	89	93	95	97	98	97	99	102	103	105	108	111	113	116	114	110	102	92	82
1600	92	94	95	97	98	98	101	103	105	106	110	110	112	114	112	107	99	89	79
2000	97	93	93	94	94	95	98	100	102	104	107	111	113	115	112	107	99	89	79
2500	88	90	90	93	94	95	99	101	102	104	106	110	111	113	111	104	97	87	77
3150	86	88	90	93	94	94	99	101	102	103	106	110	111	113	110	103	96	86	76
4000	91	87	89	92	93	93	98	100	100	103	105	110	111	114	110	104	95	85	75
5000	86	85	87	90	91	91	95	98	99	101	103	107	109	111	109	102	93	83	73
6300	84	81	83	87	88	88	92	95	96	99	101	106	108	111	108	101	90	80	70
8000	80	77	79	83	84	84	88	92	93	95	98	105	108	111	107	101	88	78	68
10000	76	74	76	80	81	81	85	90	90	93	96	105	108	112	107	102	86	76	66
OVERALL	106	108	110	110	110	110	111	113	114	117	119	124	128	133	134	131	127	117	107

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 05
AIRCRAFT CODE 511
OPERATION CODE 01002
PROFILE VERSION A
14 APR 76
PAGE 05

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
AFTERBURNER ZONE3, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	119.6	119.0	120.3	122.3	122.5	122.7	125.8	128.0	129.1	130.7	133.5	138.0	140.4	143.6	141.9	138.2	133.6	123.5	113.5
250	117.4	116.9	118.1	120.1	120.3	120.5	123.5	125.7	126.8	128.4	131.3	135.7	138.1	141.4	139.6	136.1	131.5	121.4	111.4
315	115.2	114.7	115.9	117.8	118.0	118.2	121.2	123.4	124.5	126.2	129.0	133.4	135.8	139.0	137.4	133.9	129.3	119.3	109.3
400	112.9	112.4	113.6	115.5	115.6	115.8	118.8	121.0	122.1	123.8	126.6	131.0	133.4	136.6	135.0	131.7	127.1	117.1	107.1
500	110.5	110.0	111.3	113.0	113.1	113.3	116.3	118.5	119.7	121.4	124.1	128.5	130.9	134.1	132.7	129.3	124.9	114.8	104.8
630	108.0	107.5	108.9	110.5	110.6	110.8	113.7	115.9	117.0	118.8	121.5	125.8	128.3	131.5	130.2	126.8	122.5	112.5	102.4
800	105.3	104.9	106.3	107.9	108.0	108.2	111.0	113.1	114.3	116.1	118.7	123.1	125.6	128.9	127.6	124.1	120.2	110.1	99.9
1000	102.6	102.2	103.6	105.2	105.3	105.4	108.1	110.1	111.3	113.2	116.0	120.2	122.8	126.1	124.8	121.3	117.6	107.6	97.3
1250	99.6	99.3	100.7	102.3	102.4	102.5	105.0	106.9	108.2	110.2	113.1	117.2	119.8	123.1	121.8	118.4	114.7	104.6	94.3
1600	96.4	96.1	97.7	99.2	99.3	99.4	101.8	103.6	105.0	107.0	109.9	114.0	116.6	119.9	118.6	115.5	111.5	101.4	91.2
2000	92.9	92.8	94.6	95.8	95.9	96.0	98.4	100.2	101.6	103.6	106.5	110.5	113.2	116.5	115.4	112.3	108.5	98.3	88.0
2500	89.1	89.3	90.9	92.2	92.2	92.3	94.6	96.4	97.9	99.8	102.9	106.7	109.3	112.7	111.6	108.8	104.7	94.5	84.1
3150	84.8	85.6	87.0	88.4	88.2	88.2	90.5	92.3	93.8	95.7	98.8	102.5	105.1	108.6	107.3	104.8	100.4	90.1	79.7
4000	80.1	81.3	82.7	84.1	83.7	83.7	86.0	87.8	89.3	91.2	94.3	97.8	100.4	104.1	102.7	100.3	95.8	85.4	75.0
5000	74.9	76.5	78.0	79.4	78.8	78.8	81.1	82.9	84.4	86.3	89.5	93.0	95.8	99.3	97.9	95.5	91.0	80.6	70.1
6300	69.1	71.5	73.0	74.4	73.8	73.4	75.7	77.5	79.1	81.0	84.2	88.0	90.8	94.3	92.8	90.5	86.0	75.6	65.1
8000	63.5	67.4	68.9	70.2	69.4	68.7	70.5	72.2	73.8	75.7	79.0	83.8	86.6	90.3	89.0	86.8	82.5	72.0	61.3
10000	58.9	62.9	64.5	65.8	64.6	63.9	65.5	66.8	68.9	70.8	74.2	79.3	82.2	86.2	85.0	82.9	78.7	68.1	57.2
12500	53.9	57.9	59.8	60.9	59.2	58.5	60.1	61.6	63.8	65.7	69.1	74.5	77.8	81.8	80.7	78.7	74.6	63.9	52.6
16000	48.5	52.3	54.6	55.7	53.7	53.1	54.5	55.9	58.1	60.2	63.6	69.2	72.9	77.1	76.2	74.2	70.1	59.3	47.7
20000	41.4	45.8	48.7	49.8	47.6	46.9	48.5	49.9	52.1	54.0	57.7	63.7	67.6	72.0	71.2	69.2	65.2	54.1	41.6
25000	34.2	37.9	41.7	42.9	39.9	39.4	40.9	42.5	45.2	47.1	51.2	57.6	61.9	66.4	66.5	63.8	59.8	48.1	34.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 05
AIRCRAFT CODE 511
OPERATION CODE 01002
PROFILE VERSION A
14 APR 76
PAGE E5

NOISE SOURCE/SUBJECT:
F-1110 AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
AFTERBURNER ZONE3, F-1110
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	122.0	119.0	120.3	122.3	122.5	122.7	125.8	128.0	129.1	130.7	133.5	138.0	140.4	144.1	141.9	138.2	133.6	123.5	113.5
250	119.8	116.9	118.1	120.1	120.3	120.5	123.5	125.7	126.8	128.4	131.3	135.7	138.1	141.9	139.6	136.1	131.5	121.4	111.4
315	117.6	114.7	115.9	117.8	118.0	118.2	121.2	123.4	124.5	126.2	129.0	133.4	135.8	139.5	137.4	133.9	129.3	119.3	109.3
400	115.3	112.4	113.6	115.5	115.6	115.8	118.8	121.0	122.1	123.8	126.6	131.0	133.4	137.1	135.0	131.7	127.1	117.1	107.1
500	112.9	110.0	111.3	113.0	113.1	113.3	116.3	118.5	119.7	121.4	124.1	128.5	130.9	134.6	132.7	129.3	124.9	114.8	104.8
630	110.4	107.5	108.9	110.5	110.6	110.8	113.7	115.9	117.0	118.8	121.5	125.8	128.3	132.0	130.2	126.8	122.5	112.5	102.4
800	107.7	104.9	106.3	107.9	108.0	108.2	111.0	113.1	114.3	116.1	118.7	123.1	125.6	129.4	127.6	124.1	120.2	110.1	99.9
1000	105.0	102.2	103.6	105.2	105.3	105.4	108.1	110.1	111.3	113.2	116.0	120.2	122.8	126.6	124.8	121.3	117.6	107.6	97.3
1250	102.0	99.3	100.7	102.3	102.4	102.5	105.0	106.9	108.2	110.2	113.1	117.2	119.8	123.6	121.8	118.4	114.7	104.6	94.3
1600	98.8	96.1	97.7	99.2	99.3	99.4	101.8	103.6	105.0	107.0	109.9	114.0	116.6	120.4	118.6	115.5	111.5	101.4	91.2
2000	95.3	92.8	94.6	95.8	95.9	96.0	98.4	100.2	101.6	103.6	106.5	110.5	113.2	117.0	115.4	112.3	108.5	98.3	88.0
2500	91.5	89.3	90.9	92.2	92.2	92.3	94.6	96.4	97.9	99.8	102.9	106.7	109.3	113.2	111.6	108.8	104.7	94.5	84.1
3150	87.2	85.6	87.3	88.4	88.2	88.2	90.5	92.3	93.8	95.7	98.8	102.5	105.1	109.1	107.3	104.8	100.4	90.1	79.7
4000	82.0	81.3	82.7	84.1	83.7	83.7	86.0	87.8	89.3	91.2	94.3	97.8	100.4	104.5	102.7	100.3	95.6	85.4	75.0
5000	76.3	76.5	78.0	79.4	78.8	78.8	81.1	82.9	84.4	86.3	89.5	93.3	95.8	99.6	97.9	95.5	91.0	80.6	70.1
6300	70.1	71.5	73.0	74.4	73.8	73.4	75.7	77.5	79.1	81.0	84.2	88.0	90.8	94.5	92.8	90.5	86.0	75.6	65.1
8000	64.0	67.4	68.9	70.2	69.4	68.7	70.5	72.2	73.8	75.7	79.0	83.8	86.6	90.4	89.0	86.8	82.5	72.0	61.3
10000	58.9	62.9	64.5	65.8	64.6	63.9	65.5	66.8	68.9	70.8	74.2	79.3	82.2	86.2	85.0	82.9	78.7	68.1	57.2
12500	53.9	57.9	59.8	60.9	59.2	58.5	60.1	61.6	63.8	65.7	69.1	74.5	77.8	81.8	80.7	78.7	74.6	63.9	52.6
16000	48.5	52.3	54.6	55.7	53.7	53.1	54.5	55.9	58.1	60.2	63.6	69.2	72.9	77.1	76.2	74.2	70.1	59.3	47.7
20000	41.4	45.8	48.7	49.8	47.6	46.9	48.5	49.9	52.1	54.0	57.7	63.7	67.6	72.0	71.2	69.2	65.2	54.1	41.6
25000	34.2	37.9	41.7	42.9	39.9	39.4	40.9	42.5	45.2	47.1	51.2	57.6	61.9	66.4	66.5	63.8	59.8	48.1	34.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
AFTERBURNER ZONE3, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 05
AIRCRAFT CODE 511
OPERATION CODE 01002
PROFILE VERSION A
14 APR 76
PAGE F5

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	104.8	106.1	107.7	109.4	109.4	109.2	111.9	114.0	115.3	117.0	120.1	124.0	126.1	129.1	127.1	124.0	119.8	109.8	99.8
250	102.7	104.0	105.6	107.2	107.3	107.0	109.7	111.8	113.1	114.8	117.9	121.8	123.9	126.9	124.9	121.9	117.8	107.8	97.8
315	100.5	101.8	103.5	105.1	105.1	104.8	107.5	109.5	110.8	112.6	115.7	119.5	121.7	124.7	122.8	119.8	115.7	105.7	95.7
400	98.2	99.6	101.3	102.9	102.9	102.6	105.2	107.2	108.6	110.3	113.4	117.2	119.4	122.5	120.5	117.6	113.6	103.6	93.6
500	95.9	97.4	99.1	100.7	100.6	100.3	102.9	104.9	106.2	108.0	111.1	114.9	117.1	120.2	118.3	115.4	111.4	101.4	91.4
630	93.5	95.1	96.9	98.4	98.3	98.0	100.5	102.5	103.8	105.6	108.7	112.5	114.7	117.8	115.9	113.1	109.1	99.1	89.1
800	91.1	92.8	94.6	96.1	95.9	95.6	98.0	99.9	101.4	103.1	106.2	110.0	112.3	115.4	113.5	110.8	106.8	96.8	86.8
1000	88.5	90.4	92.2	93.6	93.4	93.1	95.5	97.3	98.8	100.5	103.7	107.5	109.7	112.9	111.0	108.4	104.4	94.4	84.4
1250	85.8	87.9	89.7	91.1	90.9	90.5	92.8	94.6	96.1	97.8	101.1	104.9	107.1	110.2	108.3	105.8	101.8	91.8	81.8
1600	83.0	85.2	87.1	88.6	88.2	87.8	90.0	91.8	93.3	95.0	98.3	102.1	104.4	107.5	105.6	103.1	99.1	89.1	79.1
2000	80.1	82.5	84.4	85.9	85.5	84.9	87.1	88.8	90.4	92.1	95.4	99.3	101.5	104.7	102.7	100.4	96.2	86.2	76.2
2500	76.8	79.6	81.5	82.9	82.5	81.9	84.0	85.7	87.3	88.9	92.4	96.3	98.5	101.6	99.5	97.3	93.0	83.0	73.0
3150	73.3	75.4	78.2	79.8	79.3	78.6	80.6	82.3	84.0	85.6	89.1	93.0	95.1	98.3	96.1	94.0	89.4	79.4	69.4
4000	69.4	72.8	74.6	76.2	75.8	75.0	77.0	78.6	80.4	81.9	85.5	89.4	91.5	94.6	92.3	90.3	85.4	75.4	65.4
5000	65.1	68.7	70.6	72.2	71.8	70.9	72.9	74.5	76.3	77.8	81.4	85.4	87.5	90.5	88.2	86.2	81.1	71.1	61.1
6300	60.4	64.4	66.2	67.9	67.5	66.6	68.5	70.0	71.9	73.4	77.0	81.1	83.1	86.1	83.8	81.9	76.6	66.6	56.6
8000	56.1	60.3	62.3	63.9	63.3	62.3	64.1	65.5	67.4	69.0	72.6	76.9	79.0	82.0	79.8	78.0	73.1	63.1	53.1
10000	51.6	56.0	58.0	59.5	58.7	57.6	59.3	60.7	62.7	64.2	67.9	72.3	74.5	77.7	75.5	73.9	69.3	59.3	49.3
12500	46.9	51.2	53.3	54.8	53.6	52.5	54.1	55.4	57.5	59.0	62.7	67.4	69.7	73.0	70.9	69.4	65.2	55.2	45.2
16000	41.8	46.0	48.2	49.6	48.1	47.0	48.5	49.7	51.9	53.3	57.1	62.0	64.4	68.0	66.1	64.6	60.8	50.8	40.8
20000	36.5	40.3	42.6	43.9	42.1	41.1	42.4	43.7	45.8	47.3	51.0	56.1	58.8	62.6	61.1	59.5	56.1	46.1	36.1
25000	30.7	34.2	36.5	37.6	35.6	34.8	36.0	37.2	39.3	40.9	44.4	49.8	53.0	56.9	56.1	54.2	51.1	41.1	31.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 05
AIRCRAFT CODE 511
OPERATION CODE 01002
PROFILE VERSION A
14 APR 76
PAGE G5

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
AFTERBURNER ZONE3, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	107.2	106.1	107.7	109.4	109.4	109.2	111.9	114.0	115.3	117.0	120.1	124.0	126.1	129.6	127.1	124.0	119.8	109.8	99.8
250	105.1	104.0	105.6	107.2	107.3	107.0	109.7	111.8	113.1	114.8	117.9	121.8	123.9	127.4	124.9	121.9	117.8	107.8	97.8
315	102.9	101.8	103.5	105.1	105.1	104.8	107.5	109.5	110.8	112.6	115.7	119.5	121.7	125.2	122.8	119.8	115.7	105.7	95.7
400	100.6	99.6	101.3	102.9	102.9	102.6	105.2	107.2	108.6	110.3	113.4	117.2	119.4	123.0	120.5	117.6	113.6	103.6	93.6
500	98.3	97.4	99.1	100.7	100.6	100.3	102.9	104.9	106.2	108.0	111.1	114.9	117.1	120.7	118.3	115.4	111.4	101.4	91.4
630	95.9	95.1	96.9	98.4	98.3	98.0	100.5	102.5	103.8	105.6	108.7	112.5	114.7	118.3	115.9	113.1	109.1	99.1	89.1
800	93.5	92.8	94.6	96.1	95.9	95.6	98.0	99.9	101.4	103.1	106.2	110.0	112.3	115.9	113.5	110.8	106.8	96.8	86.8
1000	90.9	90.4	92.2	93.6	93.4	93.1	95.5	97.3	98.8	100.5	103.7	107.5	109.7	113.4	111.0	108.4	104.4	94.4	84.4
1250	88.2	87.9	89.7	91.1	90.9	90.5	92.8	94.6	96.1	97.8	101.1	104.9	107.1	110.7	108.3	105.8	101.8	91.8	81.8
1600	85.4	85.2	87.1	88.6	88.2	87.8	90.0	91.8	93.3	95.0	98.3	102.1	104.4	108.0	105.6	103.2	99.1	89.1	79.1
2000	82.5	82.5	84.4	85.9	85.5	84.9	87.1	88.8	90.4	92.1	95.4	99.3	101.5	105.2	102.7	100.4	96.2	86.2	76.2
2500	79.2	79.6	81.5	82.9	82.5	81.9	84.0	85.7	87.3	88.9	92.4	96.3	98.5	102.1	99.5	97.3	93.0	83.0	73.0
3150	75.7	76.4	78.2	79.8	79.3	78.6	80.6	82.3	84.0	85.6	89.1	93.0	95.1	98.8	96.1	94.0	89.4	79.4	69.4
4000	71.4	72.8	74.6	76.2	75.8	75.0	77.0	78.6	80.4	81.9	85.5	89.4	91.5	95.0	92.3	90.3	85.4	75.4	65.4
5000	66.5	68.7	70.6	72.2	71.8	70.9	72.9	74.5	76.3	77.8	81.4	85.4	87.5	90.8	88.2	86.2	81.1	71.1	61.1
6300	61.4	64.4	66.2	67.9	67.5	66.6	68.5	70.0	71.9	73.4	77.0	81.1	83.1	86.3	83.8	81.9	76.6	66.6	56.6
8000	56.6	60.3	62.3	63.9	63.3	62.3	64.1	65.5	67.4	69.0	72.6	76.9	79.0	82.1	79.8	78.0	73.1	63.1	53.1
10000	51.6	56.0	58.0	59.5	58.7	57.6	59.3	60.7	62.7	64.2	67.9	72.3	74.5	77.7	75.5	73.9	69.3	59.3	49.3
12500	46.9	51.2	53.3	54.8	53.6	52.5	54.1	55.4	57.5	59.0	62.7	67.4	69.7	73.0	70.9	69.4	65.2	55.2	45.2
16000	41.8	46.0	48.2	49.6	48.1	47.0	48.5	49.7	51.9	53.3	57.1	62.0	64.4	68.0	66.1	64.6	60.8	50.8	40.8
20000	36.5	40.3	42.6	43.9	42.1	41.1	42.4	43.7	45.8	47.3	51.0	56.1	58.8	62.6	61.1	59.5	56.1	46.1	36.1
25000	30.7	34.2	36.5	37.6	35.6	34.8	36.0	37.2	39.3	40.9	44.4	49.8	53.0	56.9	56.1	54.2	51.1	41.1	31.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

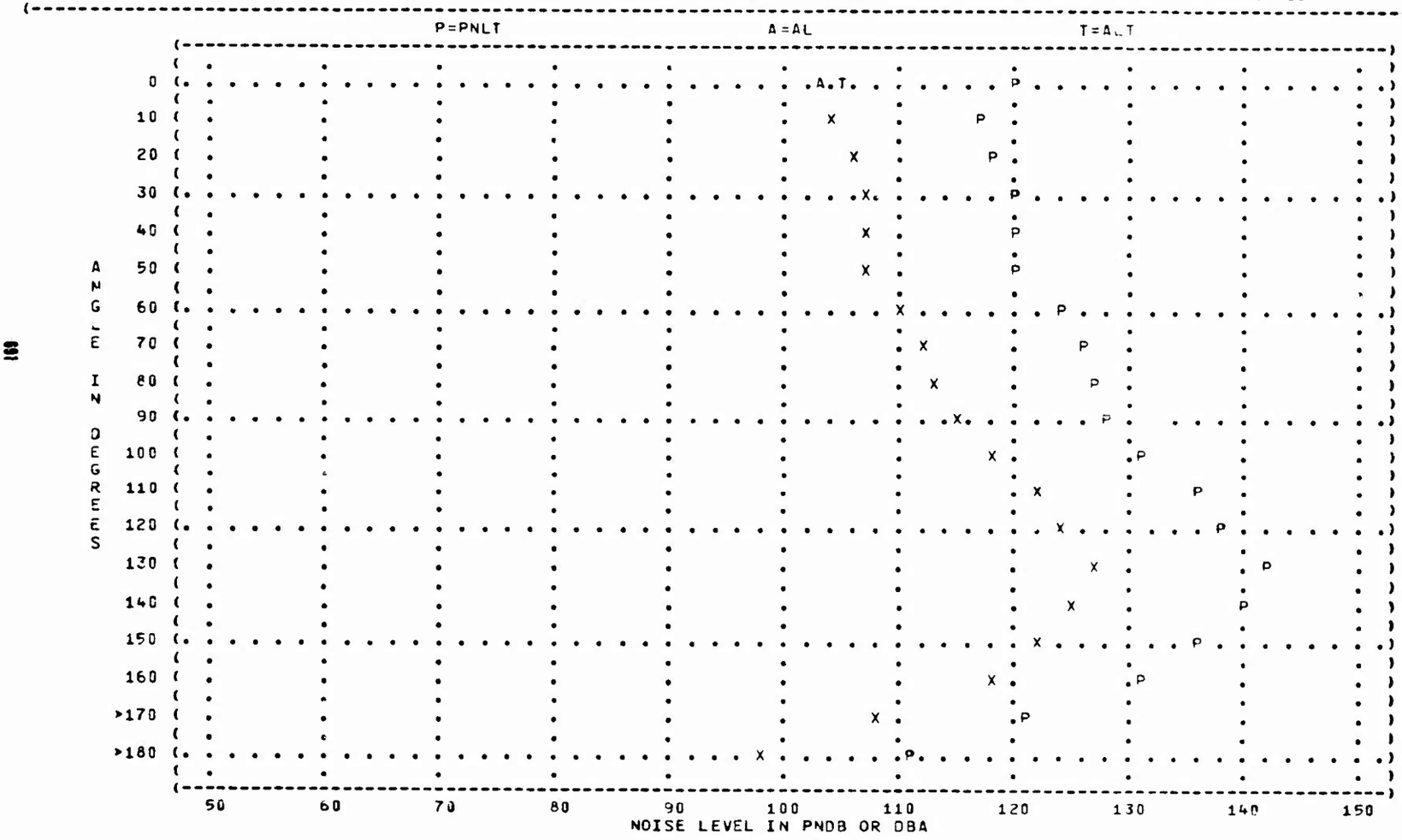
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-111D AIRCRAFT
ENG. TF30-P-9
GROUND RUNUP

OPERATION:
AFTERBURNER ZONE3, F-111D
SINGLE ENGINE, TF30-P-9
ESTIMATED NOISE LEVELS
RE F-111F LEVELS -0.8 DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-511-001
RUN 05
AIRCRAFT CODE 511
OPERATION CODE 01002
PROFILE VERSION A
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PAGE J5



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF F-111F AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

F-111F AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 079
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

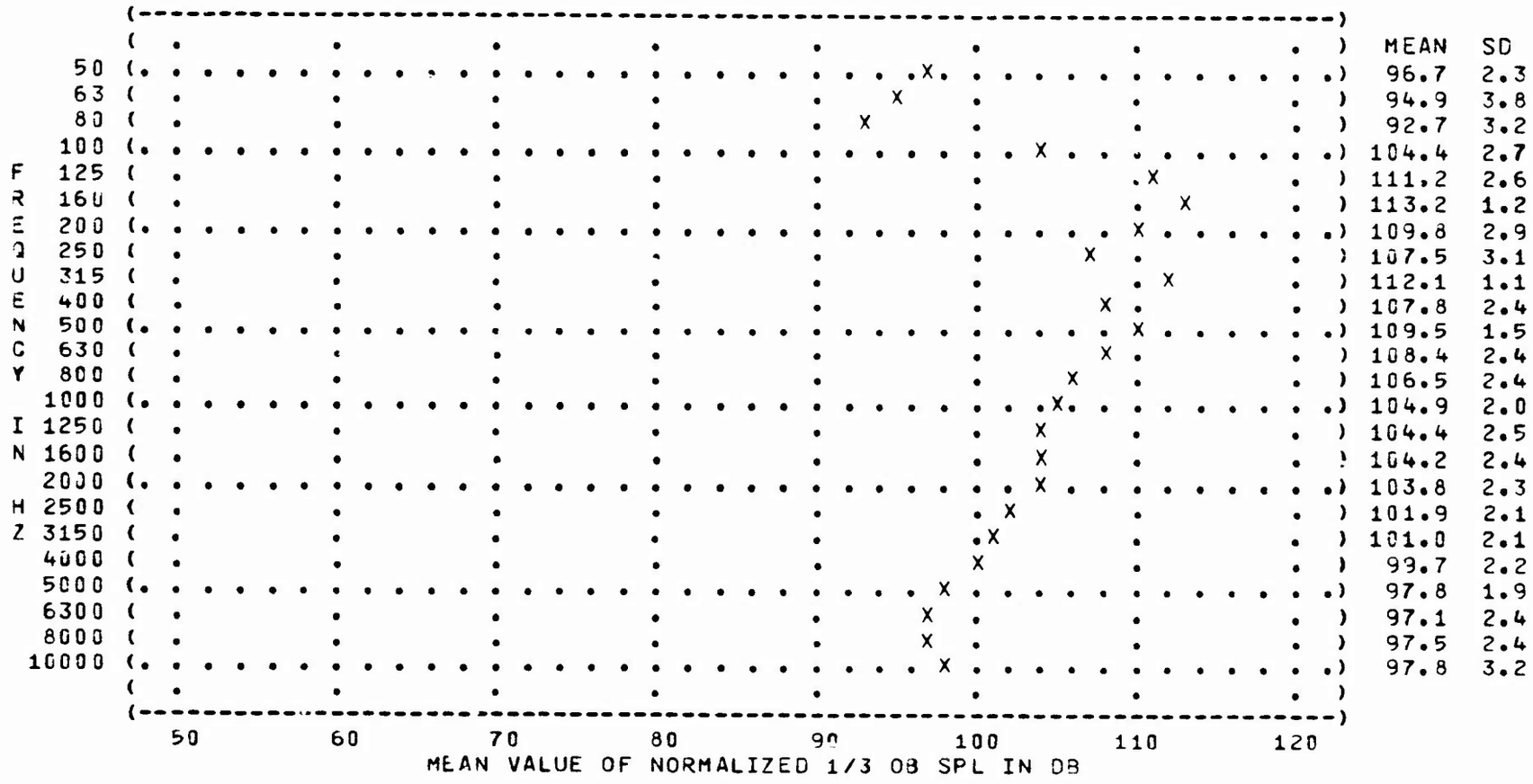
POWER SETTING	PAGE
AFTERBURNER 97% RPM	693-701
TAKEOFF 97% RPM	702-710
APPROACH 81% RPM	711-719
INTERMEDIATE 96% RPM	720-728

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
- AIR-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
- GROUND-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

28 JAN 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO



F-111F AFTERBURNER POWER 97 % RPM

AIRSPEED = 350 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-079-101-280176

PNLT = 129.8 PNDB
PNL = 129.0 PNDB
ALT = 116.8 DBA
AL = 116.1 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-111F

OPERATION: AFTERBURNER POWER, 97 % RPM, AIRSPEED = 350 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 079
OPS CODE: 101
PROFILE VER: A
28 JAN 76
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	111	109	107	119	125	127	124	122	126	122	124	123	122	120	120	120	121	120	120	121	120	123	129	138
250	109	107	105	117	123	125	122	120	124	120	122	121	120	118	118	118	119	117	118	118	118	120	126	134
315	107	105	103	115	121	123	120	118	122	118	120	119	117	116	116	116	116	115	115	116	115	117	122	130
400	105	103	101	113	119	121	118	116	120	116	118	117	115	114	114	114	114	113	113	113	112	114	119	125
500	103	101	99	110	117	119	116	114	118	114	116	115	113	112	112	112	112	110	110	110	109	111	114	120
630	101	99	97	108	115	117	114	112	116	112	114	113	111	110	109	109	109	108	107	107	106	107	110	114
800	99	97	95	106	113	115	112	110	114	110	112	111	109	107	107	107	107	105	104	104	102	102	104	106
1000	97	95	93	104	111	113	110	107	112	<108	110	108	106	105	104	104	104	102	101	100	98	97	97	98
1250	95	93	91	102	109	111	108	105	110	106	107	106	104	102	102	101	101	99	97	95	93	91	90	88
1600	93	91	89	100	107	109	106	103	108	103	105	104	102	100	99	99	98	95	93	90	88	84	81	75
2000	91	89	87	98	105	107	103	101	106	101	103	101	99	97	96	95	94	91	89	85	81	76	70	60
2500	89	87	85	96	103	105	101	99	103	99	100	99	96	94	93	92	90	87	83	78	74	66	56	41
3150	87	85	82	94	101	103	99	97	101	96	98	96	93	91	90	88	86	82	77	70	65	55	40	18
4000	84	83	80	92	99	100	97	94	98	94	95	93	90	88	86	84	81	76	70	61	54	40	20	
5000	82	80	78	90	96	98	94	92	96	91	92	90	87	84	82	79	75	69	61	50	41	23		
6300	80	78	76	88	94	96	92	89	93	88	89	87	83	80	77	73	69	61	51	36	25	1		
8000	78	76	74	85	92	93	89	86	90	85	86	83	79	75	71	67	61	51	38	19	6			
10000	76	74	72	83	89	91	87	84	87	82	82	79	74	69	65	59	51	39	23					
12500	74	72	69	80	87	88	84	81	84	78	78	74	68	63	57	49	40	25	4					
16000	72	69	67	78	84	85	81	77	80	74	73	68	62	55	48	38	26	7						
20000	69	67	64	75	81	82	77	73	76	69	67	62	54	46	37	25	9							
25000	67	64	62	72	78	79	73	69	71	63	61	54	45	35	24	8								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-111F

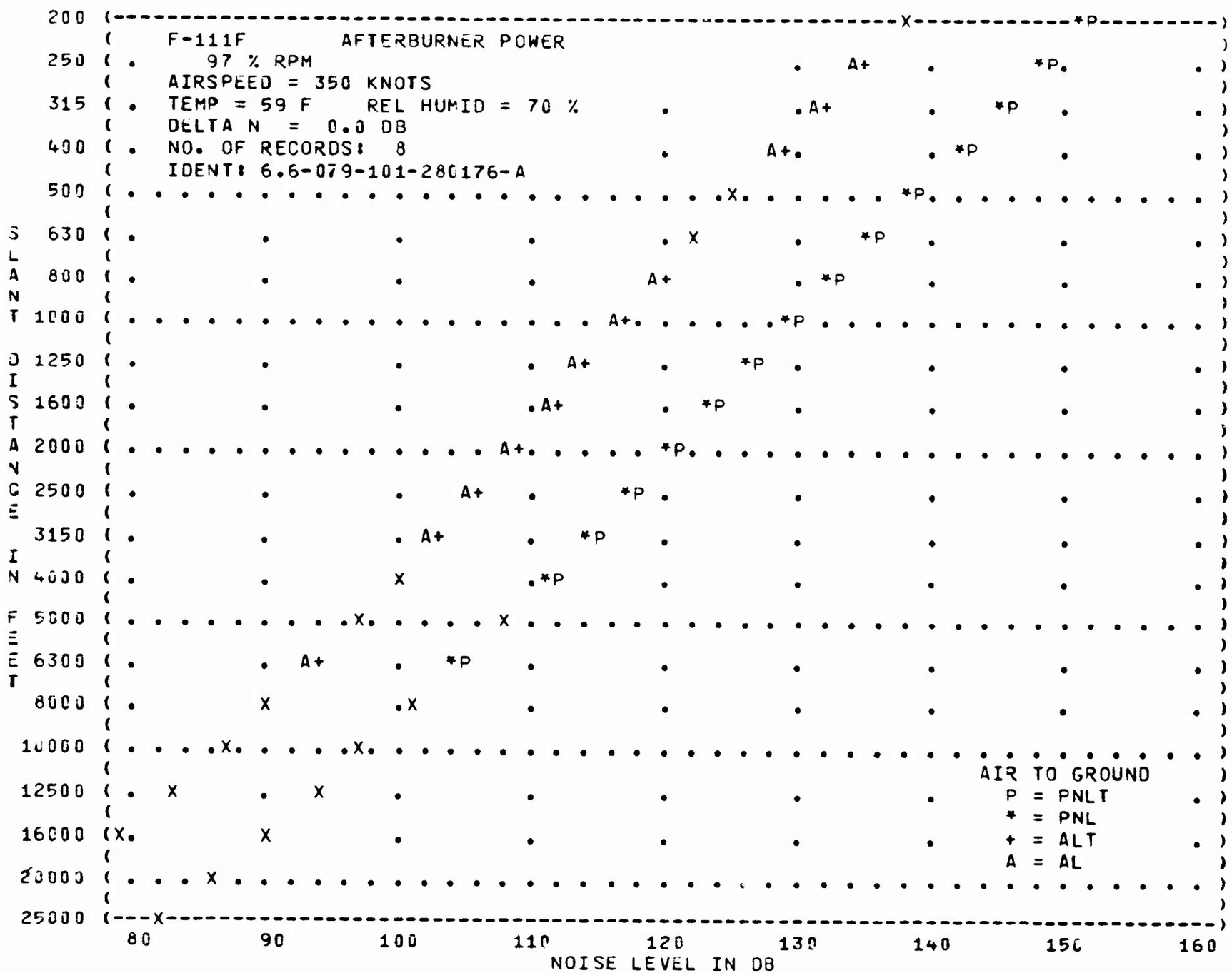
OPERATION: AFTERBURNER POWER, 97 % RPM, AIRSPEED = 350 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 079
OPS CODE: 101
PROFILE VER: A
28 JAN 76
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	137.5	138.3	151.3	152.0	133.1	134.2	137.7
250	134.5	135.2	148.4	149.1	131.1	132.1	135.8
315	131.2	132.0	145.3	146.0	128.8	129.9	133.7
400	128.0	128.7	142.0	142.7	126.6	127.6	131.4
500	124.7	125.5	138.4	139.2	124.3	125.4	128.8
630	121.7	122.4	135.1	135.9	122.3	123.3	126.5
800	118.8	119.5	132.2	132.9	120.4	121.5	124.6
1000	116.1	116.8	129.0	129.8	118.7	119.7	122.4
1250	113.4	114.2	126.0	126.7	117.0	118.1	120.4
1600	110.8	111.5	123.1	123.8	115.4	116.4	118.5
2000	108.1	108.8	120.1	120.8	113.7	114.8	116.5
2500	105.3	106.1	117.1	117.8	111.9	113.0	114.5
3150	102.5	103.2	114.0	114.8	110.1	111.2	112.4
4000	99.6	100.2	110.9	111.5	108.2	109.0	110.1
5000	96.5	97.0	107.7	108.2	106.1	106.8	107.7
6300	93.4	93.7	104.5	104.8	104.0	104.4	105.2
8000	90.1	90.3	101.1	101.2	101.7	101.9	102.6
10000	86.7	86.7	97.5	97.5	99.3	99.3	99.8
12500	83.1	83.1	93.9	93.9	96.7	96.7	97.2
16000	79.2	79.2	90.3	90.3	93.8	93.8	94.6
20000	75.2	75.2	86.4	86.4	90.8	90.8	91.8
25000	71.0	71.0	82.3	82.3	87.6	87.6	88.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111F AFTERBURNER POWER
97 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-079-101-280176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
80
90
100
110
120
130
140
150
160
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

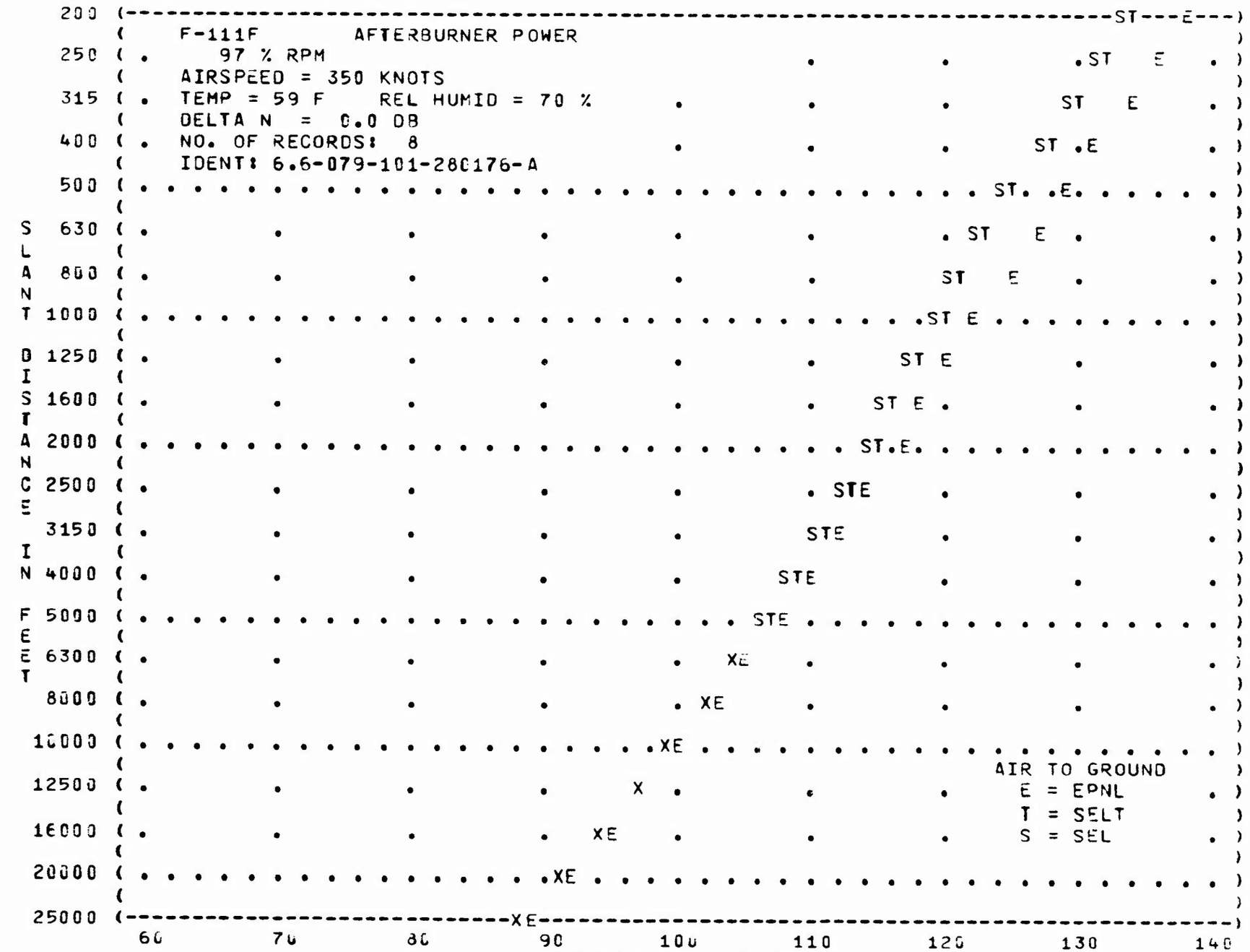

F-111F AFTERBURNER POWER
97 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-079-101-280176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111F

OPERATION:
AFTERBURNER POWER
97 % RPM
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 079
OPS CODE: 101
PROFILE VER: A
28 JAN 76
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	106	104	102	114	120	122	119	117	121	117	119	118	117	115	115	115	116	115	115	116	115	118	124	133
250	104	102	100	112	118	120	117	115	119	115	117	116	115	113	113	113	114	112	113	113	113	115	121	129
315	102	100	98	110	116	118	115	113	117	113	115	114	112	111	111	111	111	110	110	111	110	112	117	125
400	100	98	96	108	114	116	113	111	115	111	113	112	110	109	109	109	109	108	108	108	107	109	114	120
500	98	96	94	105	112	114	110	109	113	109	111	110	108	107	107	107	107	105	105	105	104	106	109	115
630	96	94	92	103	110	111	108	106	111	107	109	108	106	105	104	104	104	103	102	102	101	102	105	109
800	94	92	90	101	107	108	105	103	109	105	107	106	104	102	102	102	102	100	99	99	97	97	99	101
1000	92	90	88	98	104	105	102	100	107	<103	105	103	101	100	99	99	99	97	96	95	93	92	92	93
1250	90	88	85	95	101	102	99	97	104	101	102	101	99	97	97	96	96	94	92	90	88	86	85	83
1600	88	85	81	92	97	99	95	93	101	98	100	99	97	95	94	94	93	90	88	85	83	79	76	70
2000	85	81	78	88	93	95	91	90	97	96	98	96	94	92	91	90	89	86	84	80	76	71	65	55
2500	81	77	73	83	89	91	87	85	93	92	95	94	91	89	88	87	85	82	78	73	69	61	51	36
3150	77	73	69	79	84	86	82	80	89	88	92	91	88	86	85	83	81	77	72	65	60	50	35	13
4000	73	68	63	73	79	80	76	74	83	83	88	87	85	83	81	79	76	71	65	56	49	35	15	
5000	67	63	59	68	74	75	71	69	77	78	83	83	82	79	77	74	70	64	56	45	36	18		
6300	62	58	54	64	69	70	66	64	71	72	79	79	77	75	72	68	64	56	46	31	20			
8000	60	56	52	61	67	68	64	61	68	69	76	75	73	70	66	62	56	46	33	14	1			
10000	58	54	50	59	64	65	61	59	65	66	72	71	68	64	60	54	46	34	18					
12500	56	52	47	56	62	63	58	56	62	62	68	66	62	58	52	44	35	20						
16000	54	49	45	54	59	60	55	52	58	58	63	60	56	50	43	33	21	2						
20000	51	47	42	51	56	57	52	48	54	53	57	54	48	41	32	20	4							
25000	49	44	40	48	53	53	48	44	49	47	51	46	39	30	19	3								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-111F

OPERATION: AFTERBURNER POWER 97 % RPM

AIRSPEED = 350 KNOTS

METEOROLOGY: TEMP = 59 F REL HUMID = 70 %

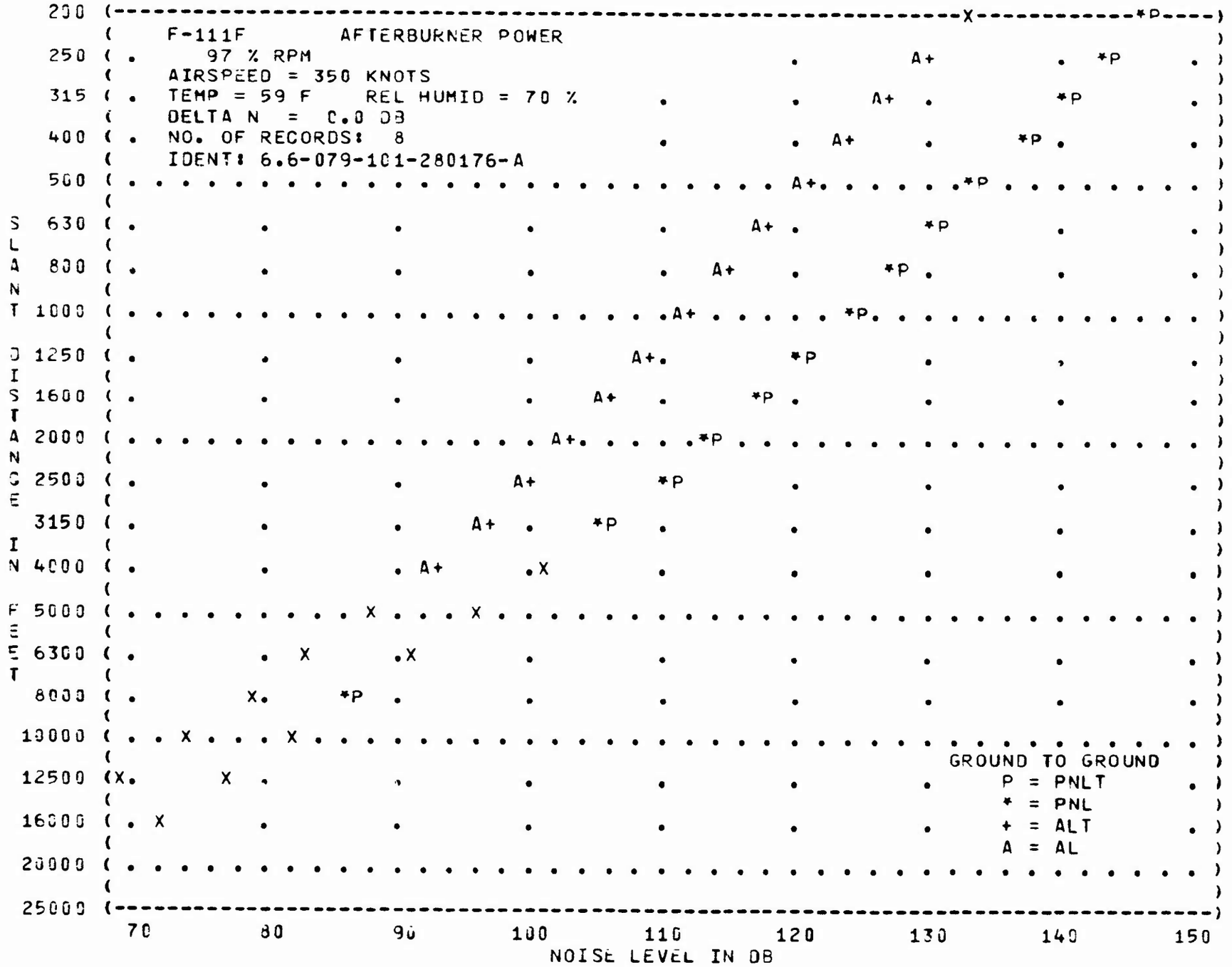
DELTA N = 0.0 DB

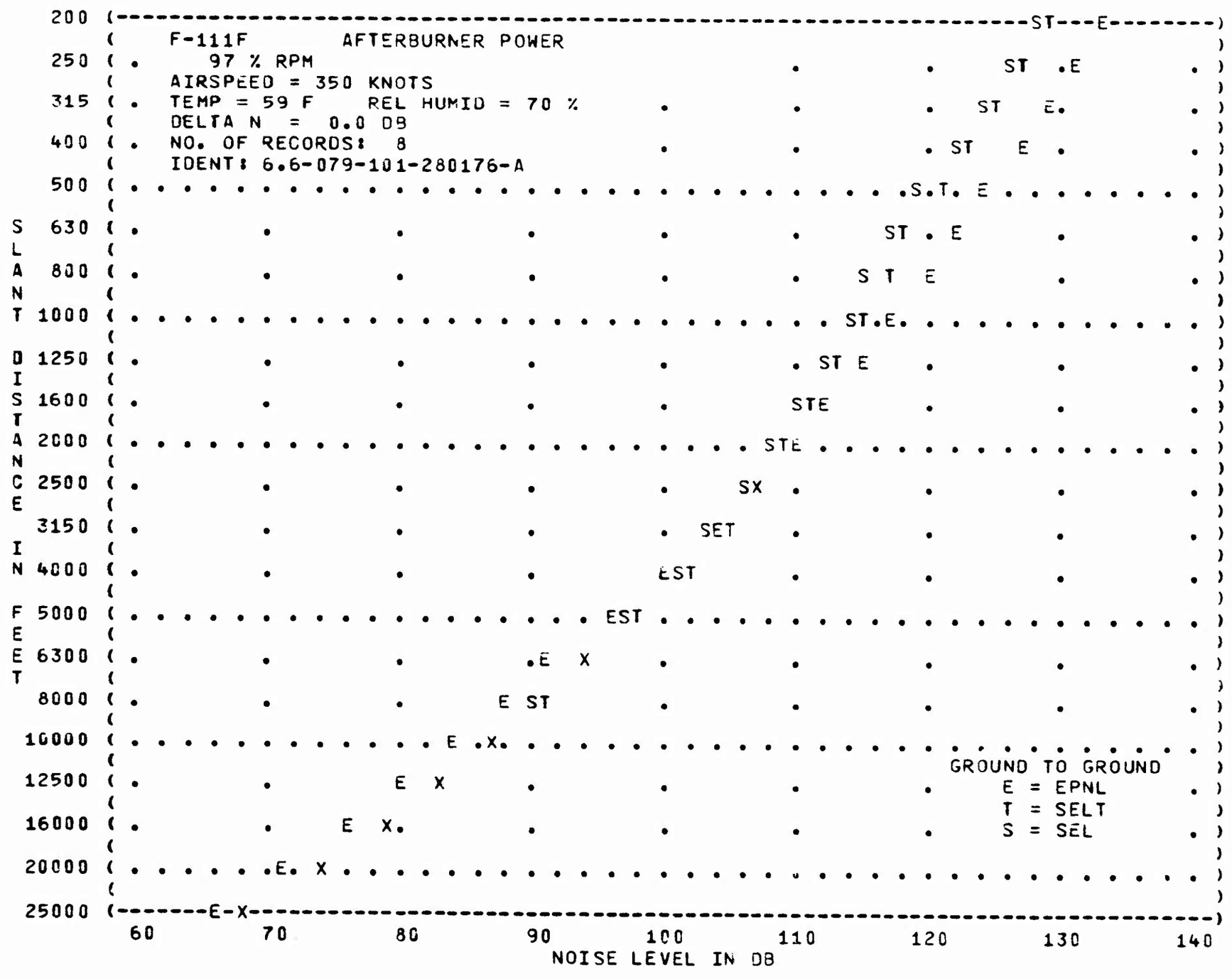
A/C CODE: 079
OPS CODE: 101
PROFILE VER: A
28 JAN 76
PAGE M1

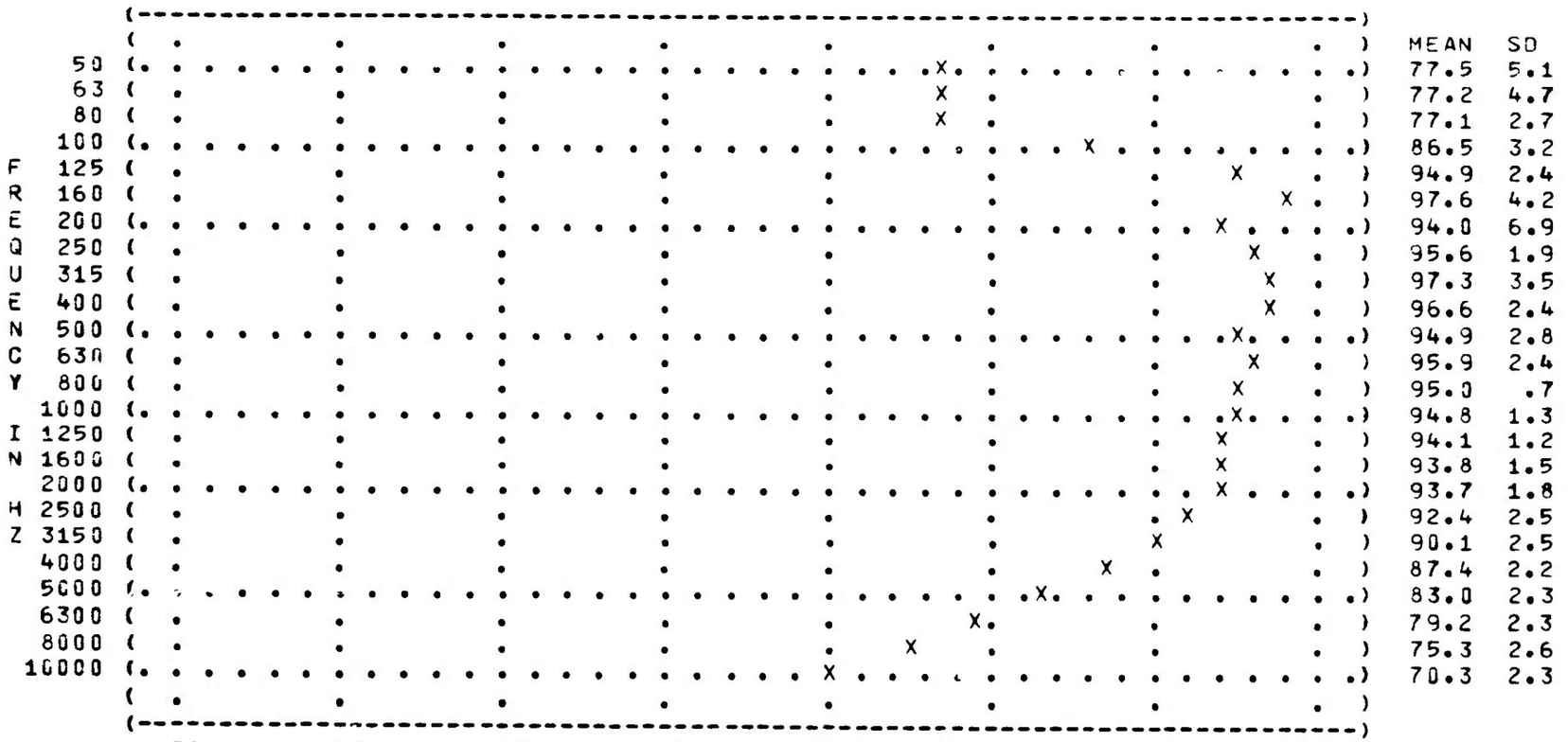
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	132.5	133.4	146.3	147.2	128.1	129.4	132.9
250	129.5	130.4	143.4	144.3	126.1	127.3	130.9
315	126.2	127.1	140.3	141.2	123.8	125.1	128.8
400	123.0	123.9	136.9	137.8	121.6	122.8	126.5
500	119.7	120.6	133.4	134.3	119.3	120.6	124.0
630	116.6	117.5	130.0	130.9	117.2	118.4	121.6
800	113.7	114.6	127.0	127.9	115.3	116.5	119.5
1000	110.9	111.8	123.7	124.6	113.5	114.7	117.3
1250	108.1	109.0	120.3	121.2	111.7	113.0	114.9
1600	105.3	106.2	116.8	117.7	109.9	111.1	112.4
2000	102.4	103.3	113.3	114.2	108.0	109.2	109.9
2500	99.2	100.1	109.6	110.5	105.8	107.1	107.2
3150	95.8	96.7	105.4	106.3	103.4	104.6	104.0
4000	91.9	92.7	100.8	101.5	100.5	101.5	100.1
5000	87.6	88.1	95.8	96.3	97.2	97.9	95.8
6300	82.9	83.3	90.5	90.9	93.5	94.0	91.4
8000	78.7	78.9	86.3	86.5	90.3	90.6	87.9
10000	74.2	74.2	81.9	81.9	86.8	86.8	84.2
12500	69.3	69.3	77.1	77.1	82.9	82.9	80.4
16000	63.9	63.9	71.9	71.9	78.5	78.5	76.2
20000	58.1	58.1	66.2	66.2	73.7	73.7	71.5
25000	51.8	51.8	59.7	59.7	68.4	68.4	66.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111F AFTERBURNER POWER
97 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-079-101-280176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-111F AFTERBURNER POWER
97 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-079-101-280176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-111F TAKEOFF POWER 97 % RPM

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-079-103-280176

PNLT = 117.3 PNDB
PNL = 116.8 PNDB
ALT = 104.9 OBA
AL = 104.3 OBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-111F

OPERATION: TAKEOFF POWER, 97 % RPM, AIRSPEED = 300 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 079
OPS CODE: 103
PROFILE VER: A
28 JAN 76
PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	92	91	91	101	109	112	108	110	112	111	110	111	110	110	110	110	110	110	109	108	105	105	106	109
250	90	89	89	99	107	110	106	108	110	109	108	109	108	108	108	108	108	108	107	106	103	102	103	105
315	88	87	87	97	105	108	104	106	108	107	106	107	106	106	106	106	106	105	104	103	100	99	100	101
400	86	85	85	95	103	106	102	104	106	105	103	105	104	104	103	103	104	103	102	101	97	96	96	97
500	84	83	83	93	101	104	100	102	104	103	101	102	102	102	101	101	101	101	99	98	94	92	92	92
630	82	81	81	91	99	102	98	100	102	101	99	100	99	99	99	99	99	98	96	95	91	89	87	86
800	79	79	79	89	97	100	96	98	99	99	97	98	97	97	97	96	96	95	93	91	87	84	82	79
1000	77	77	77	86	95	98<	94	96	97	97	95	96	95	95	94	94	94	92	90	87	83	79	75	70
1250	75	75	75	84	93	95	92	94	95	94	93	94	93	92	92	91	91	89	87	83	78	73	68	60
1600	73	73	73	82	91	93	90	91	93	92	90	91	90	90	89	88	88	86	82	78	73	67	59	48
2000	71	71	71	80	89	91	88	89	91	90	88	89	88	87	86	85	84	82	78	73	67	59	48	33
2500	69	69	69	78	87	89	86	87	89	88	86	86	85	84	83	82	80	77	73	66	59	49	35	15
3150	67	67	67	76	84	87	83	85	86	85	83	84	82	81	80	78	76	72	67	59	51	38	20	
4000	65	65	65	74	82	85	81	82	84	83	80	81	79	78	76	74	71	67	60	49	40	24	0	
5000	63	63	63	72	80	83	79	80	81	80	78	78	76	74	72	69	66	60	51	38	28	7		
6300	61	61	60	70	78	80	76	77	79	77	75	74	72	70	67	63	59	52	41	25	12			
8000	59	59	58	67	75	78	74	75	76	74	71	71	68	65	61	57	51	42	29	9				
10000	57	56	56	65	73	75	71	72	73	71	67	66	63	60	55	49	42	31	14					
12500	55	54	54	63	71	73	68	69	69	67	63	62	58	53	48	40	31	17						
16000	52	52	51	60	68	70	65	66	66	63	59	56	51	46	39	29	18	0						
20000	50	49	49	57	65	67	62	62	62	58	53	50	44	37	28	16	2							
25000	48	47	46	55	62	63	58	58	57	53	47	43	35	26	15	0								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATIO

OMEGA 6.6

AIRCRAFT: F-111F

OPERATION: TAKEOFF POWER 97 % RPM AIRSPEED = 300 KNOTS

METEOROLOGY: TEMP = 59 F REL HUMID = 70 %

DELTA N = 0.0 DB

A/C CODE:

OPS CODE:

PROFILE VE

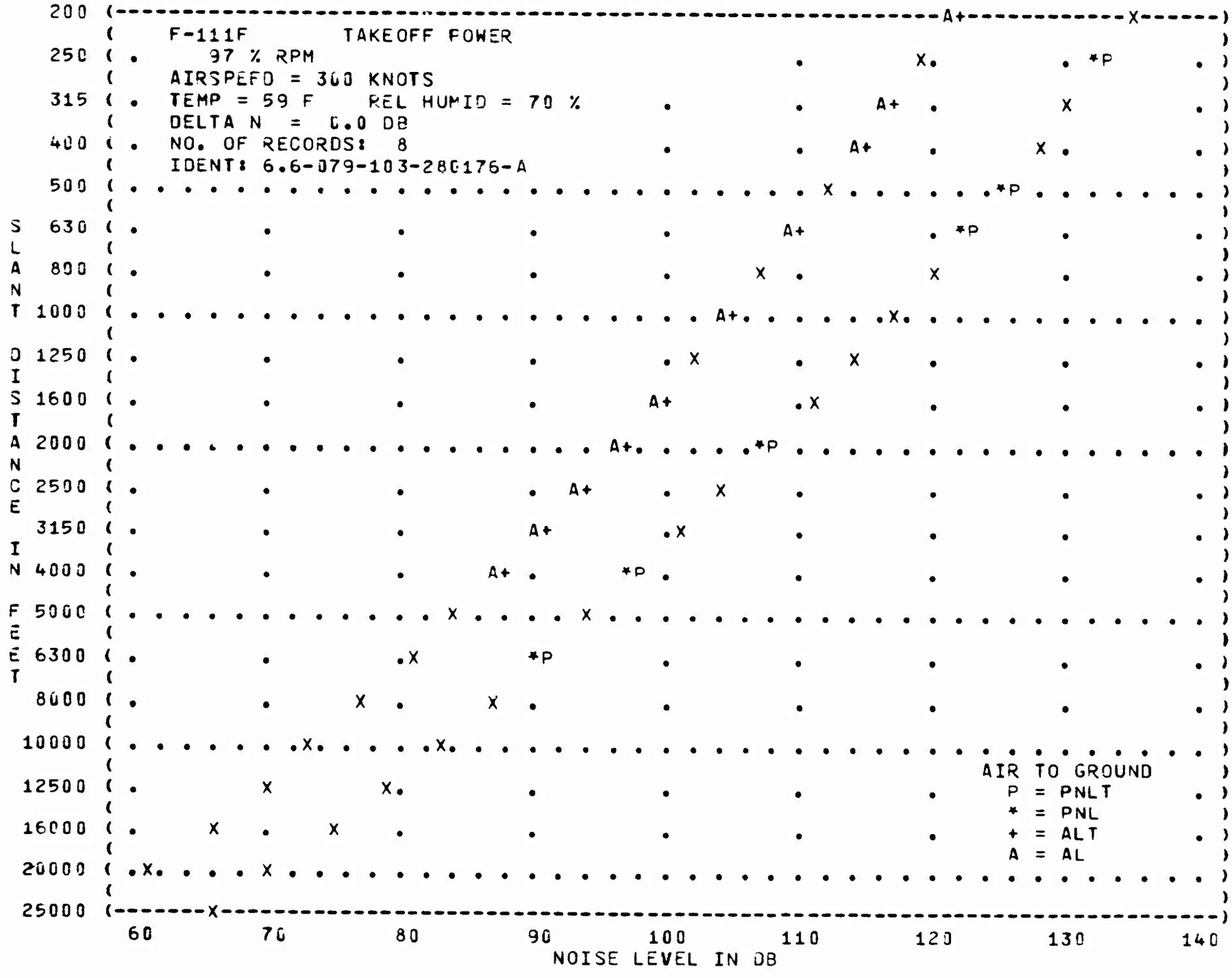
28 JAN 76

PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	121.0	121.6	134.6	135.1	121.1	122.2	124.5
250	118.8	119.3	132.3	132.8	119.8	121.0	123.2
315	116.5	117.0	129.9	130.5	118.5	119.7	121.9
400	114.2	114.7	127.5	128.0	117.2	118.3	120.5
500	111.8	112.3	125.0	125.5	115.8	117.0	119.0
630	109.4	109.9	122.4	122.9	114.4	115.5	117.3
800	106.9	107.4	119.7	120.2	112.9	114.1	115.6
1000	104.3	104.9	116.8	117.3	111.4	112.5	113.7
1250	101.7	102.2	113.8	114.3	109.8	110.9	111.7
1600	99.0	99.5	110.6	111.1	108.1	109.2	109.5
2000	96.2	96.7	107.3	107.8	106.3	107.4	107.3
2500	93.3	93.8	103.8	104.4	104.3	105.5	104.8
3150	90.3	90.8	100.5	101.1	102.3	103.5	102.5
4000	87.2	87.6	97.3	97.7	100.2	101.1	100.0
5000	83.9	84.2	94.0	94.3	98.0	98.6	97.5
6300	80.6	80.8	90.5	90.7	95.6	96.1	94.8
8000	77.0	77.1	86.9	87.0	93.1	93.3	92.0
10000	73.4	73.4	83.1	83.1	90.4	90.4	89.0
12500	69.5	69.5	79.1	79.1	87.6	87.6	86.0
16000	65.5	65.5	74.8	74.8	84.6	84.6	82.7
20000	61.3	61.3	70.5	70.5	81.3	81.3	79.3
25000	56.8	56.8	65.9	65.9	77.8	77.8	75.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111F TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-079-103-280176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

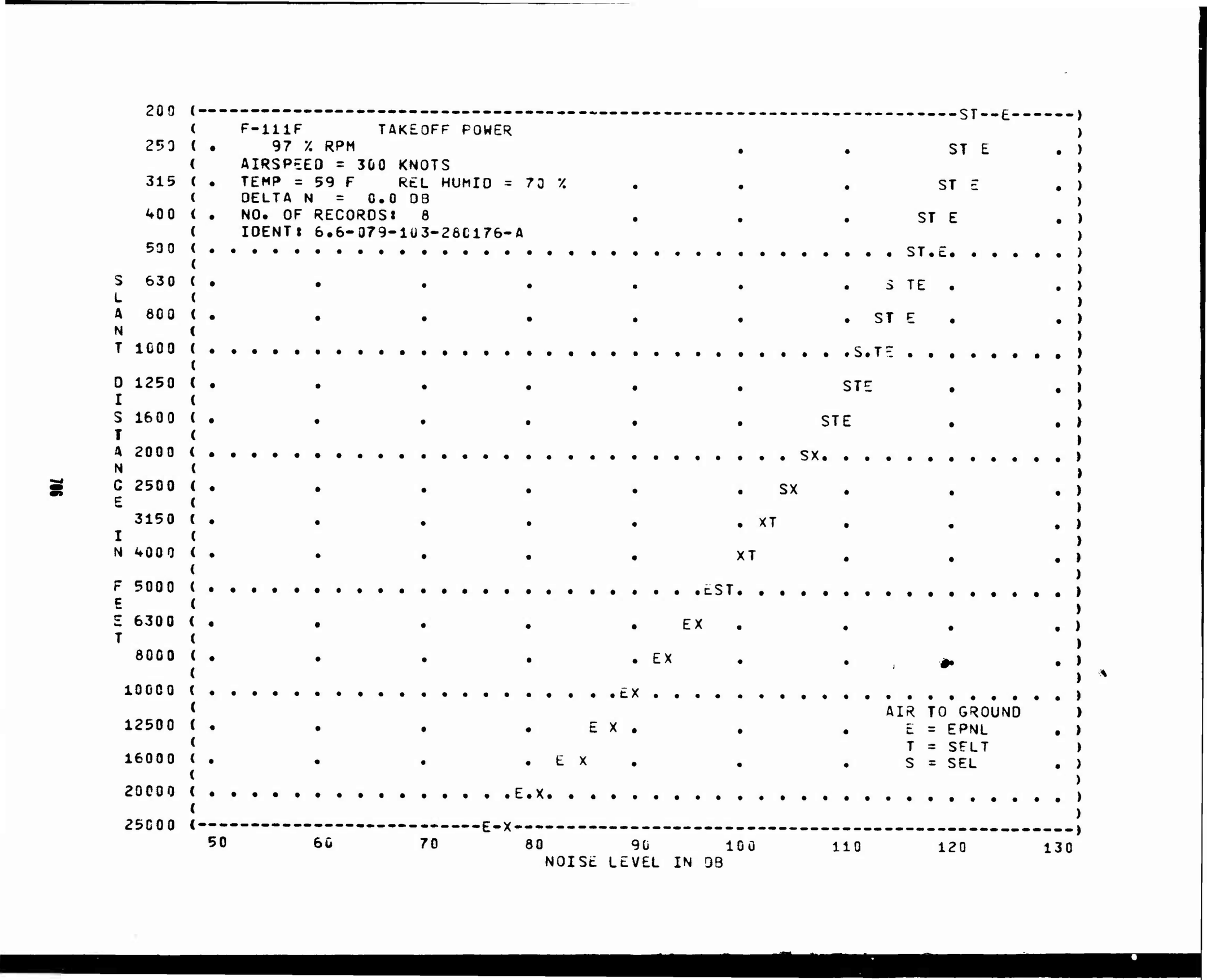

F-111F TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-079-103-280176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111F

OPERATION:
TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 079
OPS CODE: 103
PROFILE VER: A
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PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	87	86	86	96	104	107	103	105	107	106	105	106	105	105	105	105	105	105	104	103	100	100	101	104
250	85	84	84	94	102	105	101	103	105	104	103	104	103	103	103	103	103	103	102	101	98	97	98	100
315	83	82	82	92	100	103	99	101	103	102	101	102	101	101	101	101	101	100	99	98	95	94	95	96
400	81	80	80	90	98	101	97	99	101	100	98	100	99	99	98	98	99	98	97	96	92	91	91	92
500	79	78	78	88	96	98	95	97	99	98	96	97	97	97	96	96	96	96	94	93	89	87	87	87
630	77	76	76	86	93	95	92	94	97	96	94	95	94	94	94	94	94	93	91	90	86	84	82	81
800	74	74	74	83	91	93	89	91	94	94	92	93	92	92	92	91	91	90	88	86	82	79	77	74
1000	72	72	72	80	88	90	86	88	92	92	90	91	90	90	89	89	89	87	85	82	78	74	70	65
1250	70	70	69	77	84	87	83	85	89	89	88	89	88	87	87	86	86	84	82	78	73	68	63	55
1600	68	67	66	74	81	83	80	82	86	87	85	86	85	85	84	83	83	81	77	73	68	62	54	43
2000	65	63	62	70	77	79	76	78	82	85	83	84	83	82	81	80	79	77	73	68	62	54	43	28
2500	62	60	58	66	73	75	71	73	78	81	81	81	80	79	78	77	75	72	68	61	54	44	30	10
3150	58	55	53	61	68	70	66	68	74	77	77	79	77	76	75	73	71	67	62	54	46	33	15	
4000	53	50	48	55	62	64	61	63	69	72	73	75	74	73	71	69	66	62	55	44	35	19		
5000	48	45	43	50	58	59	56	57	63	67	69	71	70	69	67	64	61	55	46	33	23	2		
6300	43	41	38	46	53	55	51	52	57	61	65	66	66	65	62	58	54	47	36	20	7			
8000	41	39	36	43	50	52	48	50	54	58	61	63	62	60	56	52	46	37	24	4				
10000	39	36	34	41	48	50	46	47	51	55	57	58	57	55	50	44	37	26	9					
12500	37	34	32	39	46	47	43	44	47	51	53	54	52	48	43	35	26	12						
16000	34	32	29	36	43	44	40	41	44	47	49	48	45	41	34	24	13							
20000	32	29	27	33	40	41	36	37	40	42	43	42	38	32	23	11								
25000	30	27	24	31	37	38	33	33	35	37	37	35	29	21	10									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111F

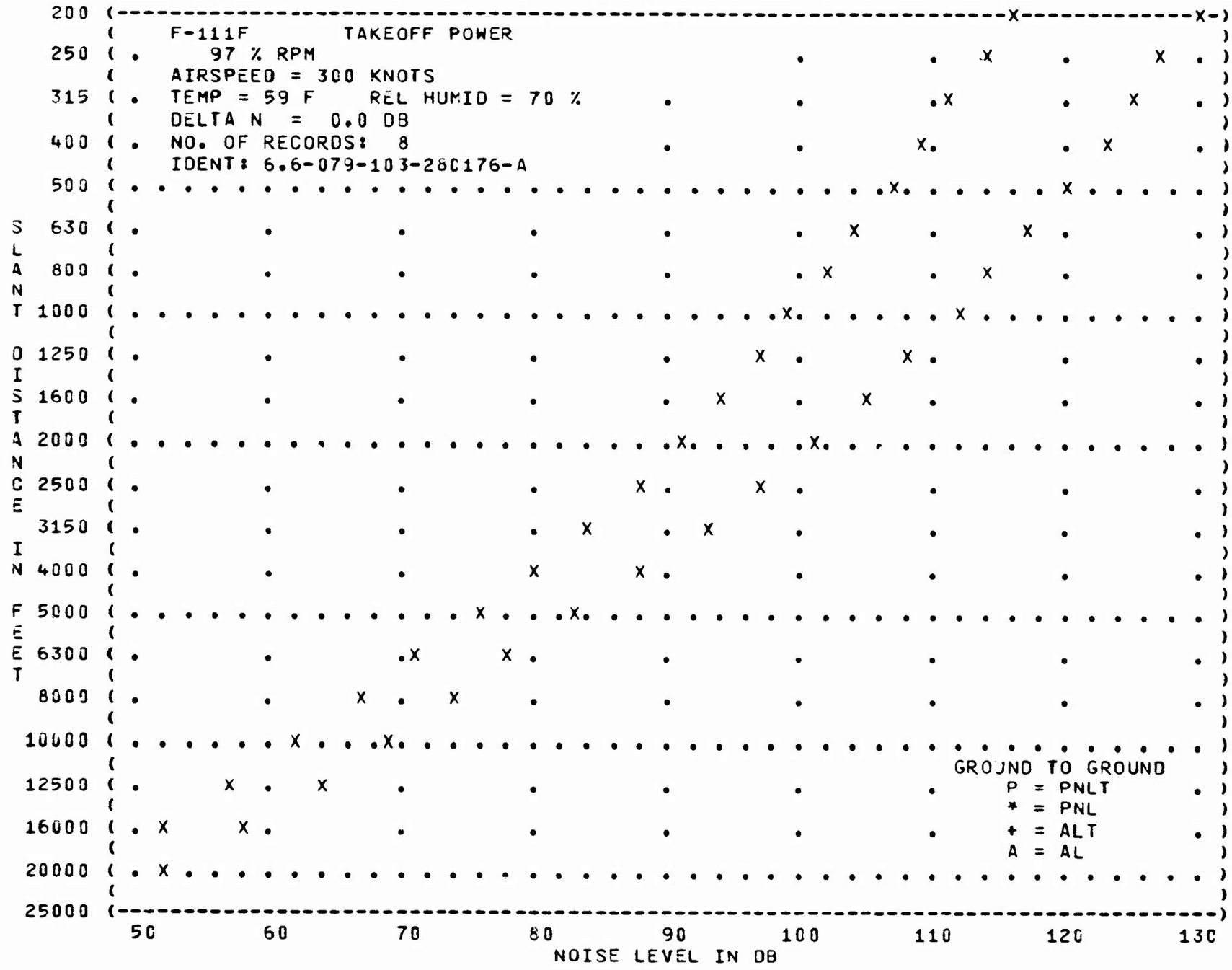
OPERATION:
TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS

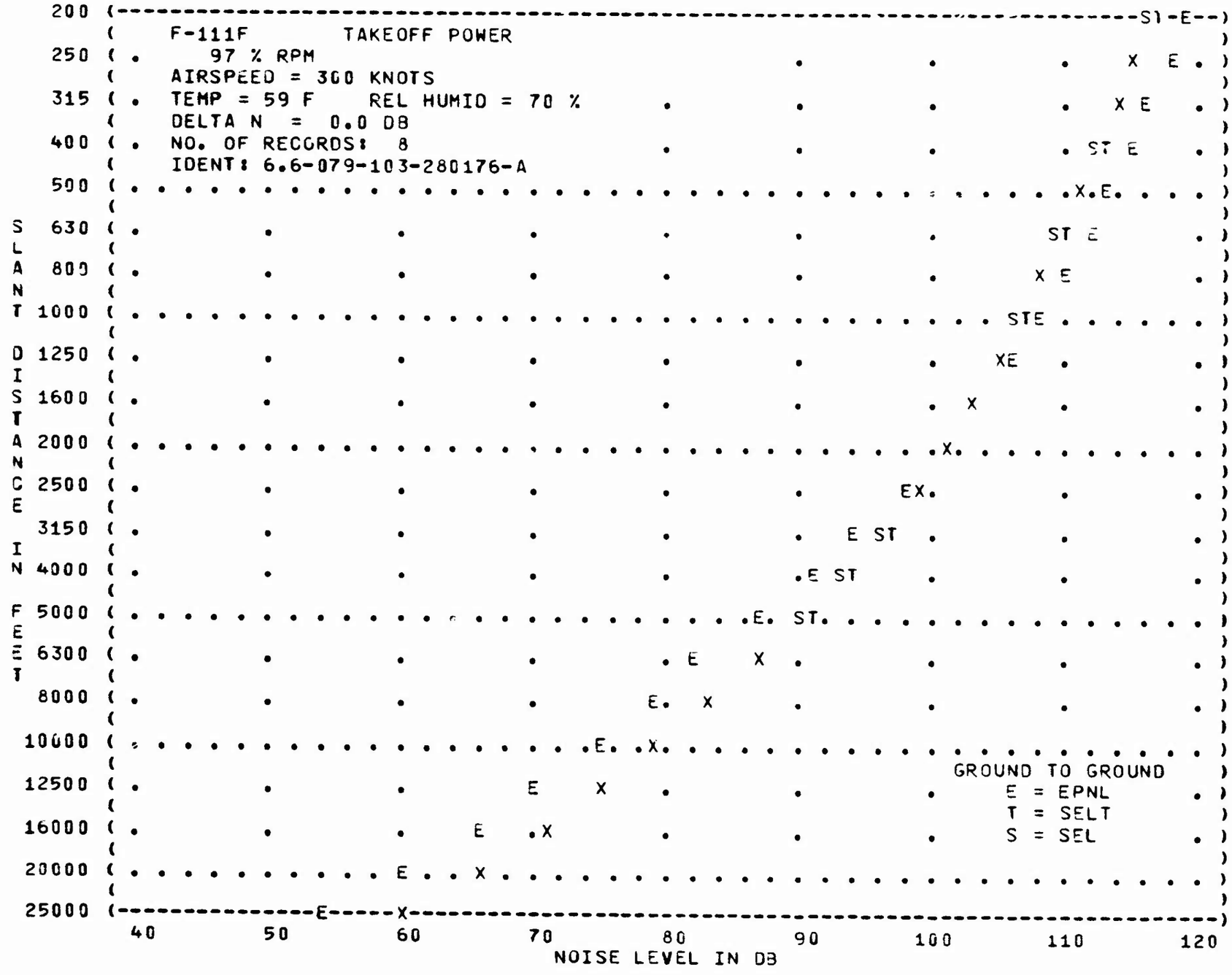
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

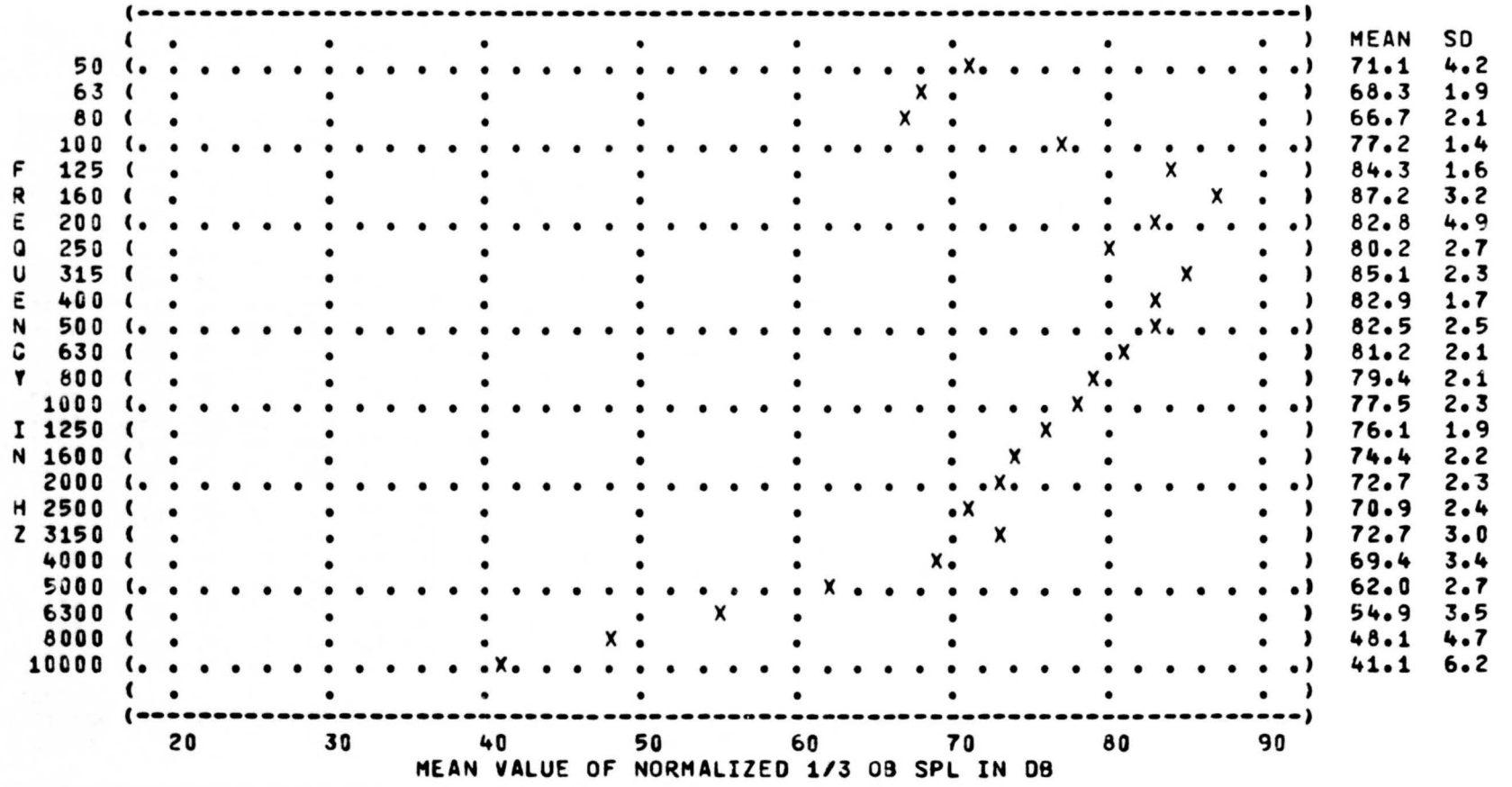
A/C CODE: 079
OPS CODE: 103
PROFILE VER: A
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PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	116.0	116.0	129.6	129.6	116.1	116.7	119.0
250	113.8	113.8	127.3	127.3	114.8	115.4	117.7
315	111.5	111.5	124.9	124.9	113.5	114.1	116.4
400	109.2	109.2	122.5	122.5	112.2	112.8	114.9
500	106.8	106.8	120.0	120.0	110.8	111.4	113.4
630	104.3	104.3	117.3	117.3	109.4	110.0	111.7
800	101.8	101.8	114.5	114.5	107.9	108.5	109.9
1000	99.3	99.3	111.5	111.5	106.3	106.9	107.9
1250	96.6	96.6	108.3	108.3	104.6	105.2	105.7
1600	93.8	93.8	104.9	104.9	102.8	103.4	103.3
2000	90.8	90.6	101.3	101.3	100.9	101.5	100.7
2500	87.7	87.7	97.3	97.3	98.7	99.3	97.7
3150	84.2	84.2	92.9	92.9	96.3	96.9	94.3
4000	80.4	80.4	88.3	88.3	93.5	93.9	90.6
5000	76.1	76.1	83.3	83.3	90.2	90.5	86.5
6300	71.5	71.5	78.1	78.1	86.5	86.8	82.2
8000	67.1	67.1	73.6	73.6	83.1	83.3	78.6
10000	62.4	62.4	68.8	68.8	79.4	79.4	74.7
12500	57.2	57.2	63.6	63.6	75.3	75.3	70.4
16000	51.6	51.6	57.9	57.9	70.7	70.7	65.7
20000	45.6	45.6	51.6	51.6	65.6	65.6	60.4
25000	39.0	39.0	44.4	44.4	60.1	60.1	54.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111F TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-079-103-280176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-111F TAKEOFF POWER
97 % RPM
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-079-103-280176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-111F APPROACH POWER 81 % RPM

AIRSPEED = 150 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-079-105-280176

PNLT = 100.5 PNDB
PNL = 99.9 PNDB
ALT = 88.8 DBA
AL = 88.2 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111F

OPERATION:
APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 079
OPS CODE: 105
PROFILE VER: A
28 JAN 76
PAGE H3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	85	82	81	91	98	101	97	95	100	97	97	96	94	93	92	91	90	89	92	90	84	81	79	80
250	83	80	79	89	96	99	95	93	98	95	95	94	92	91	90	88	87	86	89	88	82	78	76	76
315	81	78	77	87	94	97	93	90	96	93	93	92	90	89	88	86	85	84	87	85	79	75	73	72
400	79	76	75	85	92	95	91	88	93	91	91	90	88	87	85	84	83	82	84	83	76	72	69	68
500	77	74	73	83	90	93	89	86	91	89	89	88	86	84	83	82	80	79	82	80	73	68	65	63
630	75	72	71	81	88	91	87	84	89	87	87	86	84	82	81	79	78	77	79	77	70	64	60	57
800	73	70	69	79	86	89	85	82	87	85	85	83	82	80	78	77	75	74	76	73	66	60	54	50
1000	71	68	67	77	84	87<	83	80	85	83	83	81	79	78	76	74	73	71	73	69	62	55	48	41
1250	69	66	65	75	82	85	81	78	83	81	80	79	77	75	74	72	70	68	69	65	57	49	41	31
1600	67	64	63	73	80	83	79	76	81	78	78	77	75	73	71	69	67	64	65	60	52	42	32	19
2000	65	62	61	71	78	81	76	74	79	76	76	74	72	70	68	66	63	60	60	55	46	34	21	4
2500	63	60	59	69	76	79	74	72	76	74	73	72	69	67	65	62	59	56	55	48	38	25	8	
3150	61	58	56	67	74	77	72	69	74	71	71	69	66	64	61	58	55	51	49	40	30	13		
4000	59	56	54	65	72	75	70	67	72	69	68	66	63	60	58	54	50	45	42	31	19			
5000	57	54	52	63	69	72	67	65	69	66	65	63	60	57	54	49	45	38	34	20	6			
6300	55	52	50	60	67	70	65	62	66	63	62	60	56	53	49	44	38	30	24	7				
8000	53	50	48	58	65	67	62	59	64	60	59	56	52	48	43	37	30	21	11					
10000	50	47	46	56	62	65	60	56	61	57	55	52	47	42	37	30	21	9						
12500	48	45	43	53	60	62	57	53	57	53	51	47	42	36	29	21	10							
16000	46	43	41	51	57	59	54	50	53	49	46	41	35	28	21	10								
20000	44	40	38	48	54	56	50	46	49	44	41	35	28	20	10									
25000	41	38	36	45	51	53	47	42	45	39	34	28	19	9										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-111F

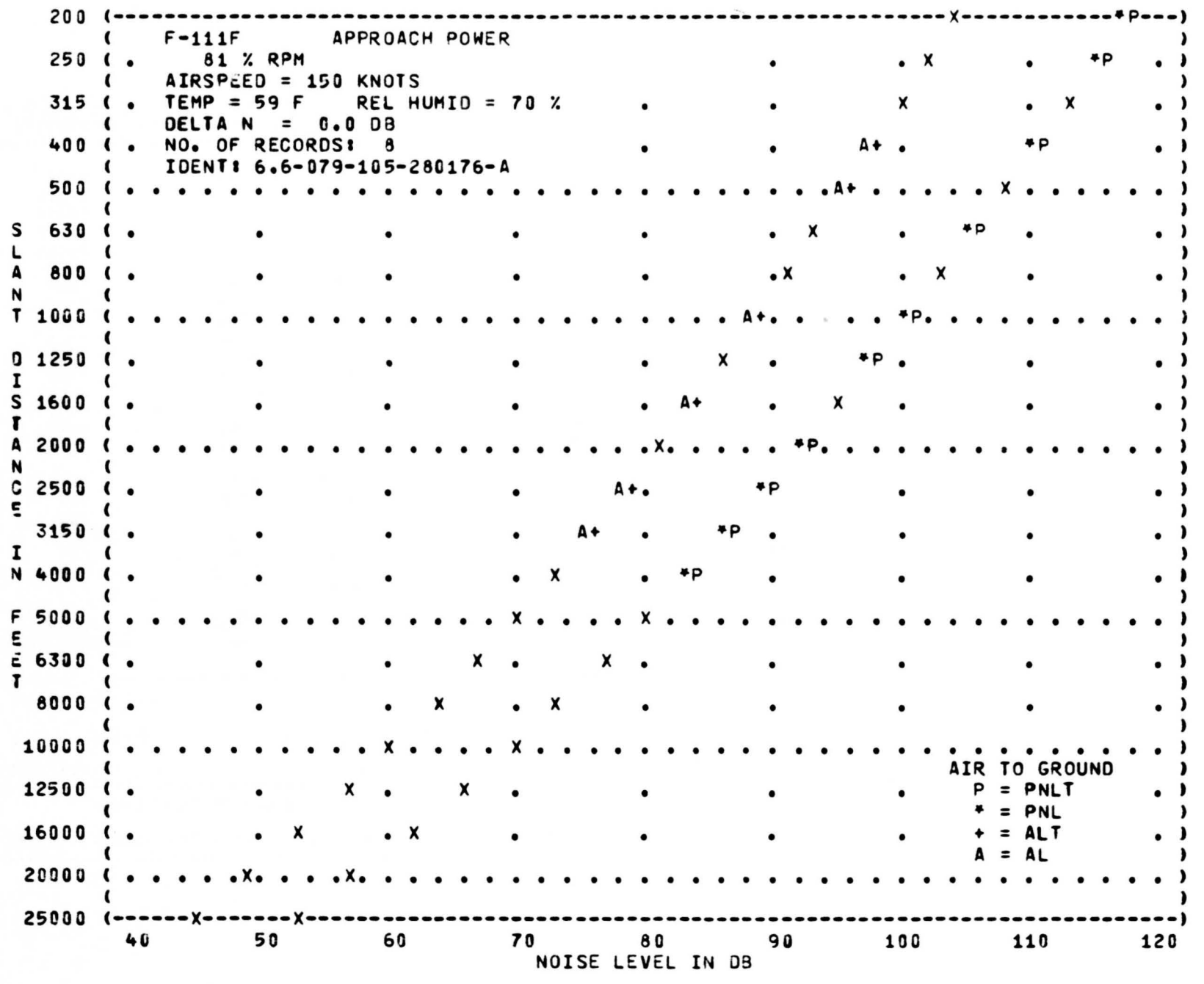
OPERATION: APPROACH POWER, 81 % RPM, AIRSPEED = 150 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 079
OPS CODE: 105
PROFILE VER: A
28 JAN 76
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	103.8	104.4	117.3	117.9	104.4	105.8	110.5
250	101.7	102.3	115.1	115.7	103.3	104.7	109.2
315	99.5	100.1	112.7	113.3	102.1	103.5	107.9
400	97.3	97.9	110.4	111.0	100.9	102.3	106.5
500	95.1	95.7	107.9	108.5	99.7	101.1	105.1
630	92.8	93.4	105.3	105.9	98.4	99.8	103.5
800	90.5	91.1	102.6	103.2	97.1	98.5	101.8
1000	88.2	88.8	99.9	100.5	95.8	97.2	100.1
1250	85.8	86.4	97.3	98.0	94.4	95.8	98.5
1600	83.3	83.9	94.7	95.3	92.9	94.3	96.9
2000	80.8	81.4	91.9	92.6	91.4	92.8	95.1
2500	78.2	78.8	89.1	89.7	89.8	91.2	93.3
3150	75.5	76.1	86.2	86.8	88.1	89.5	91.3
4000	72.7	73.2	83.1	83.6	86.3	87.4	89.0
5000	69.8	70.2	79.9	80.3	84.4	85.2	86.6
6300	66.8	67.0	76.6	76.9	82.4	82.9	84.0
8000	63.6	63.7	73.2	73.3	80.2	80.5	81.3
10000	60.2	60.2	69.5	69.5	77.8	77.8	78.3
12500	56.6	56.6	65.7	65.7	75.3	75.3	75.5
16000	52.9	52.9	61.7	61.7	72.5	72.5	72.5
20000	48.9	48.9	57.5	57.5	69.5	69.5	69.3
25000	44.7	44.7	52.9	52.9	66.3	66.3	65.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111F APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-079-105-280176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

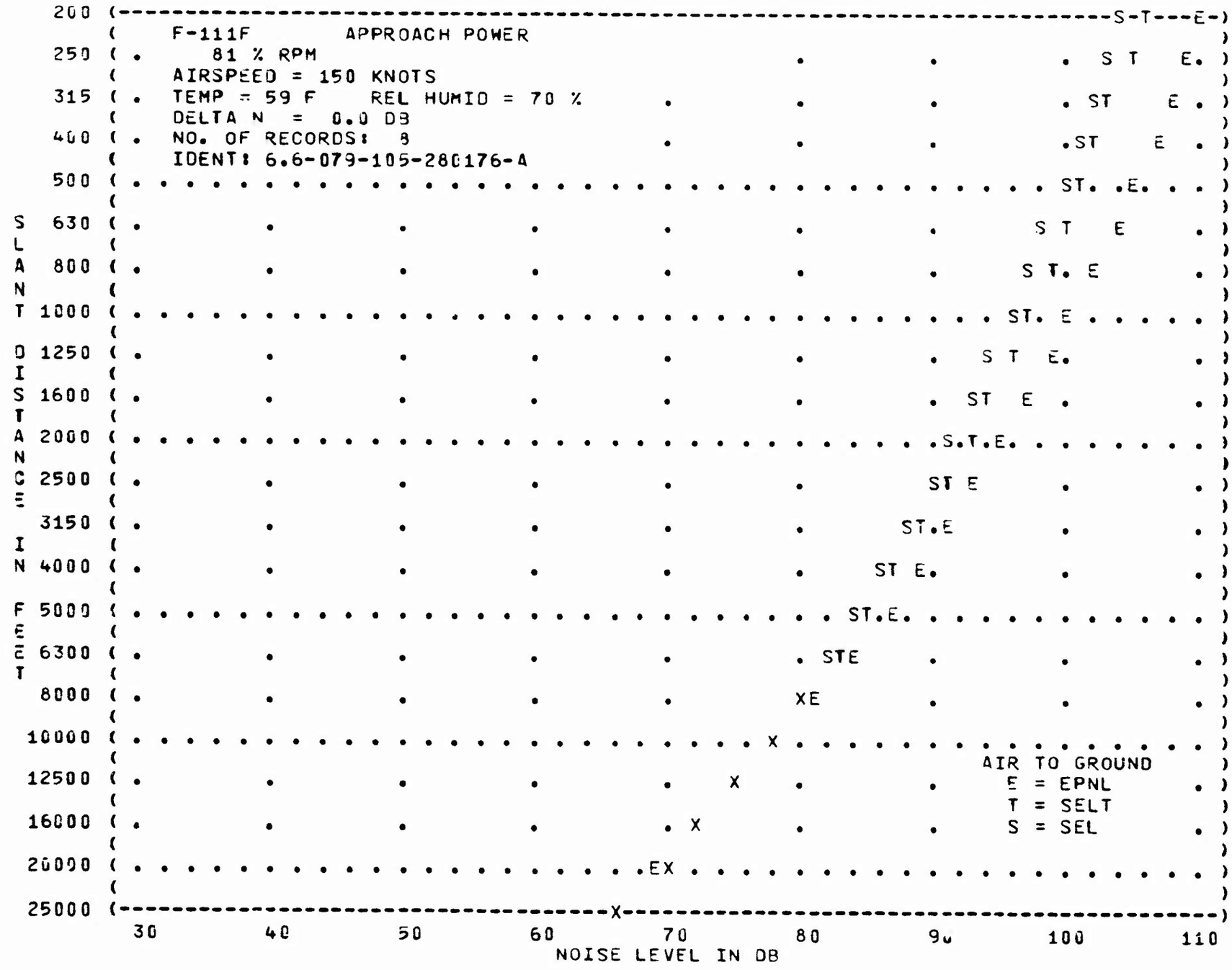

F-111F APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-079-105-280176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111F

OPERATION:
APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 079
OPS CODE: 105
PROFILE VER: A
28 JAN 76
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	80	77	76	86	93	96	92	90	95	92	92	91	89	88	87	86	85	84	87	85	79	76	74	75
250	78	75	74	84	91	94	90	88	93	90	90	89	87	86	85	83	82	81	84	83	77	73	71	71
315	76	73	72	82	89	92	88	85	91	88	88	87	85	84	83	81	80	79	82	80	74	70	68	67
400	74	71	70	80	87	90	86	83	88	86	86	85	83	82	80	79	78	77	79	78	71	67	64	63
500	72	69	68	78	85	88	83	81	86	84	84	83	81	79	78	77	75	74	77	75	68	63	60	58
630	70	67	66	76	83	85	81	79	84	82	82	81	79	77	76	74	73	72	74	72	65	59	55	52
800	68	65	64	74	80	82	78	76	82	80	80	78	77	75	73	72	70	69	71	68	61	55	49	45
1000	66	63	62	71	77	79	75	73	80<	78	78	76	74	73	71	69	68	66	68	64	57	50	43	36
1250	64	61	59	68	74	76	72	70	77	76	75	74	72	70	69	67	65	63	64	60	52	44	36	26
1600	62	58	55	64	70	73	68	66	74	73	73	72	70	68	66	64	62	59	60	55	47	37	27	14
2000	59	55	52	61	67	69	64	62	70	71	71	69	67	65	63	61	58	55	55	50	41	29	16	
2500	55	51	47	56	62	65	60	58	66	67	68	67	64	62	60	57	54	51	50	43	33	20	3	
3150	51	46	43	51	57	60	55	53	62	63	65	64	61	59	56	53	50	46	44	35	25	8		
4000	47	41	37	46	52	54	49	47	56	58	61	60	58	55	53	49	45	40	37	26	14			
5000	42	36	33	41	47	49	44	42	50	53	57	56	55	52	49	44	40	33	29	15	1			
6300	37	32	28	36	42	44	40	37	44	47	52	52	50	48	44	39	33	25	19	2				
8000	35	30	26	34	40	42	37	34	42	44	49	48	46	43	38	32	25	16	6					
10000	32	27	24	32	37	39	34	31	39	41	45	44	41	37	32	25	16	4						
12500	30	25	21	29	35	37	31	28	35	37	41	39	36	31	24	16	5							
16000	28	23	19	27	32	34	28	25	31	33	38	33	29	23	16	5								
20000	26	20	16	24	29	31	25	21	27	28	31	27	22	15	5									
25000	23	18	14	21	26	27	21	17	23	23	24	20	13	4										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-111F

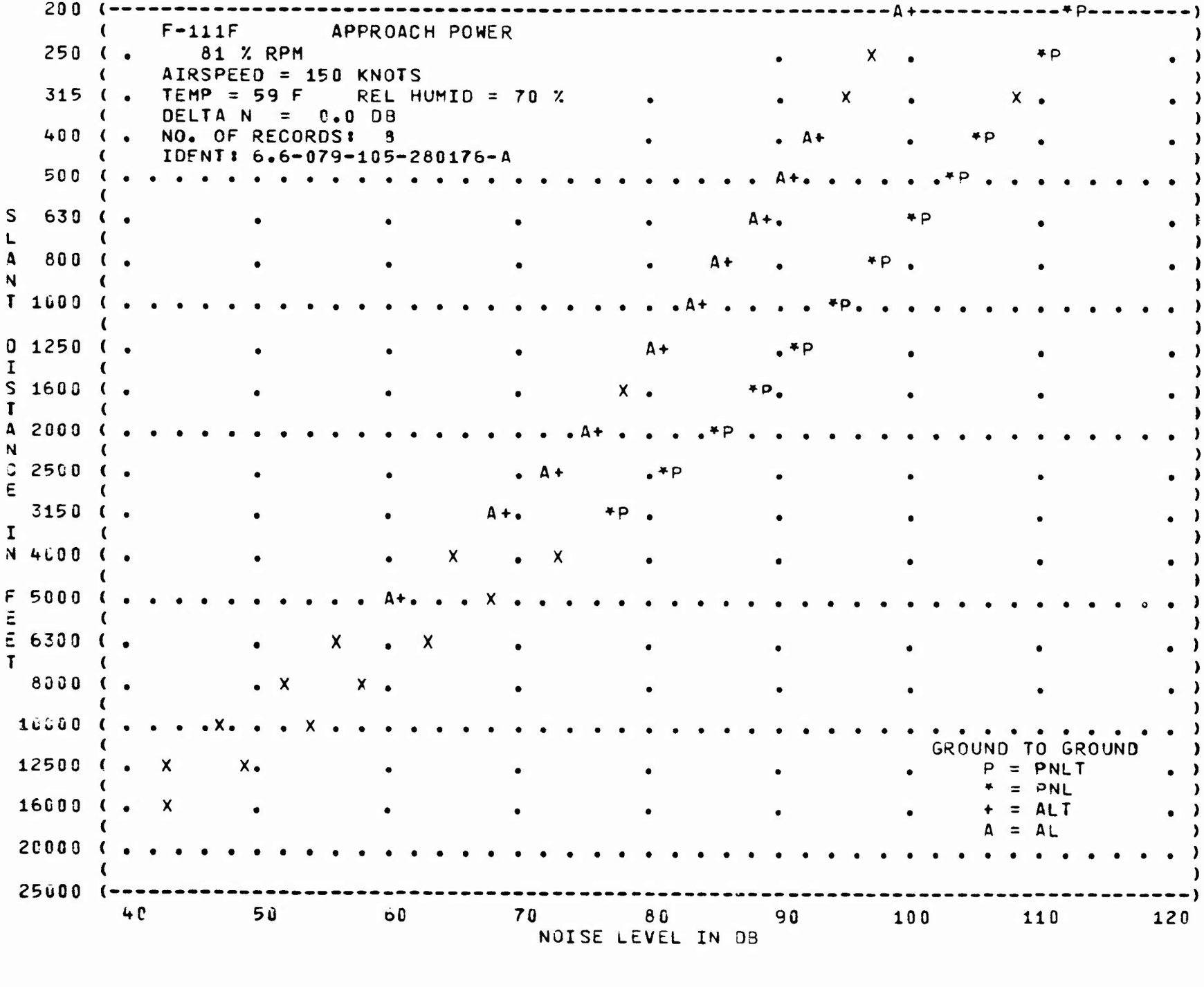
OPERATION: APPROACH POWER, 81 % RPM, AIRSPEED = 150 KNOTS

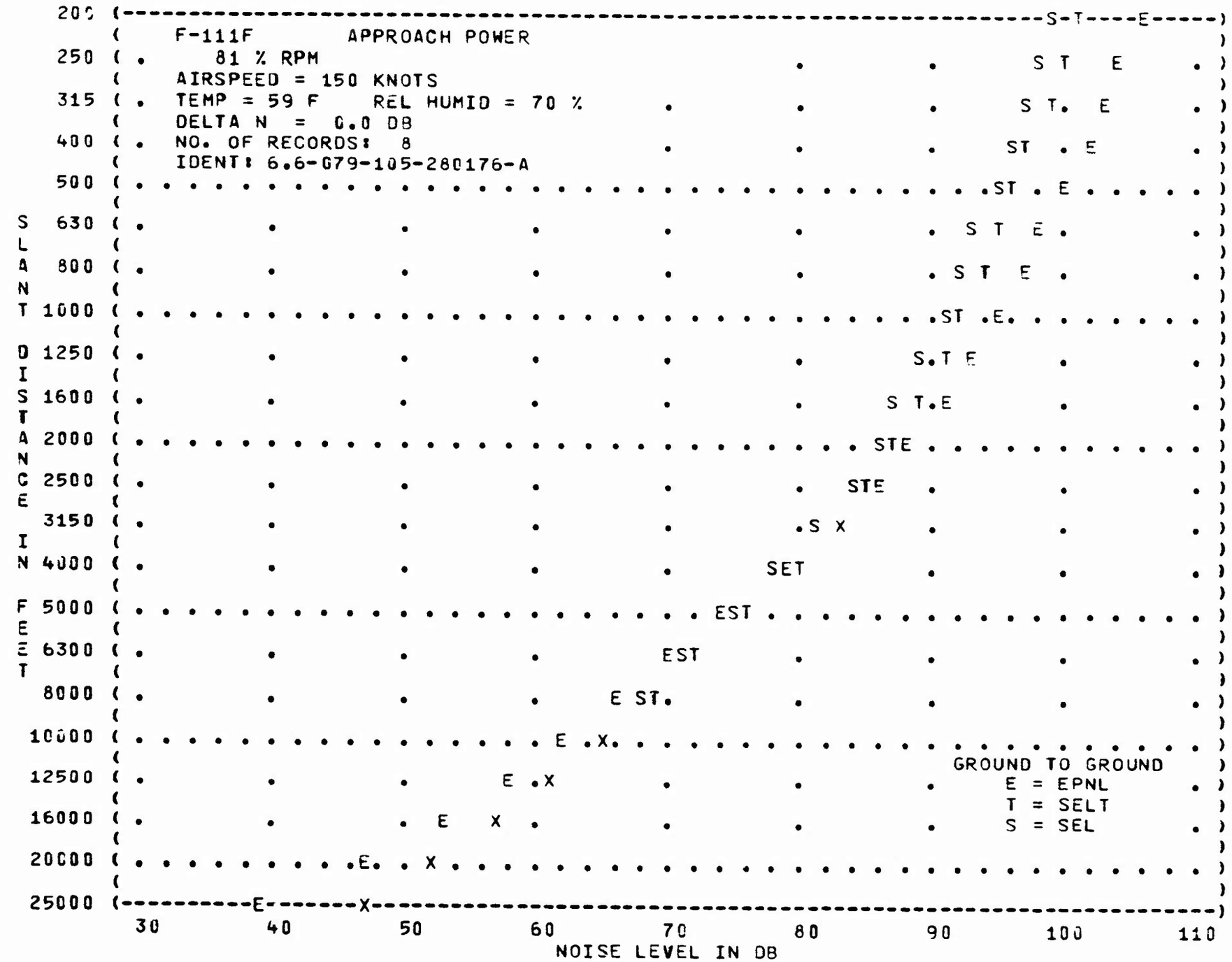
METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

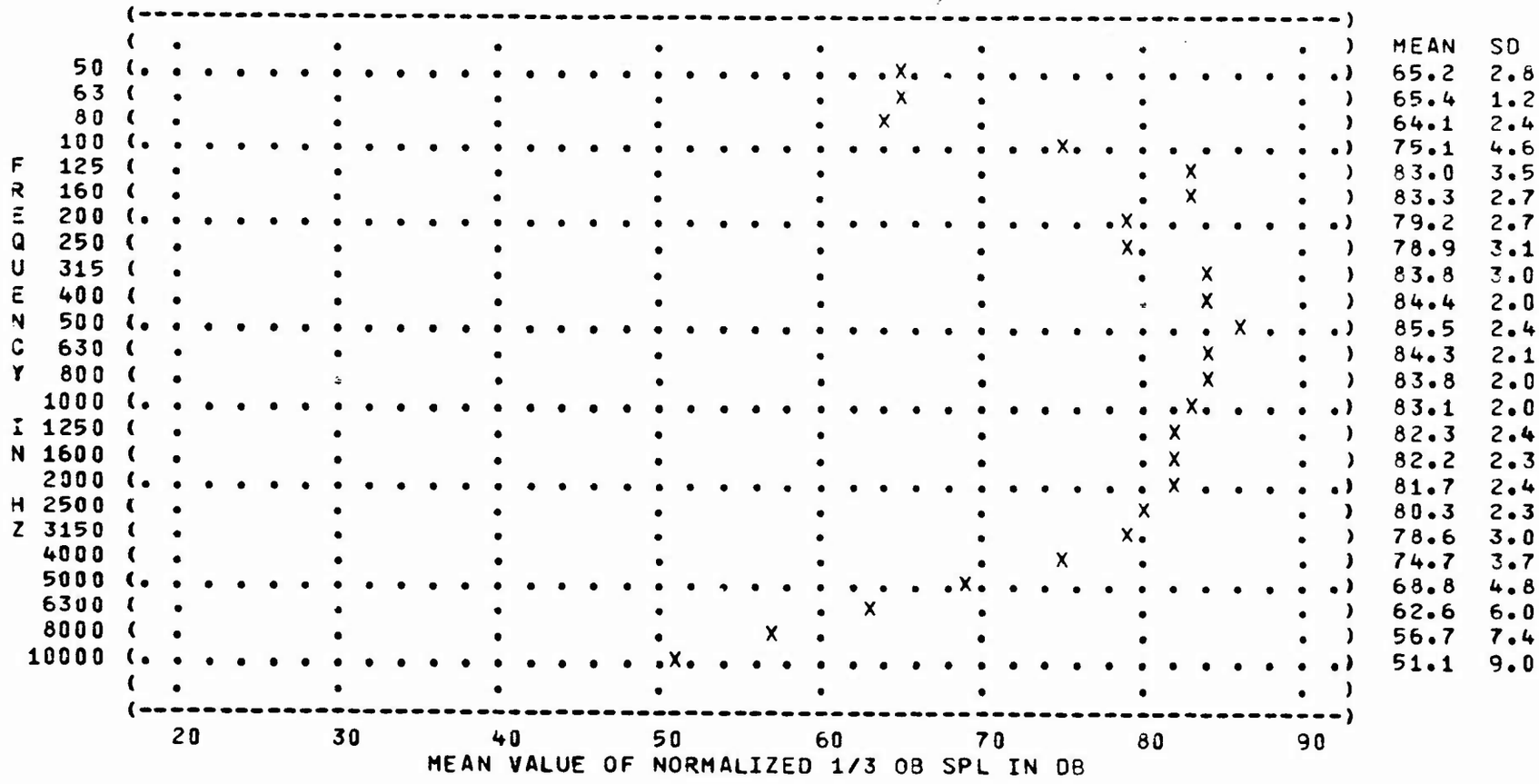
A/C CODE: 079
OPS CODE: 105
PROFILE VER: A
28 JAN 76
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	98.8	99.6	112.3	113.0	99.4	100.9	105.6
250	96.7	97.4	110.0	110.8	98.3	99.8	104.4
315	94.5	95.3	107.7	108.5	97.1	98.6	103.0
400	92.3	93.1	105.3	106.1	95.9	97.5	101.6
500	90.1	90.8	102.8	103.6	94.7	96.2	100.1
630	87.8	88.5	100.1	100.9	93.4	94.9	98.5
800	85.4	86.2	97.3	98.1	92.0	93.5	96.7
1000	83.0	83.7	94.4	95.2	90.6	92.1	94.7
1250	80.4	81.2	91.3	92.1	89.0	90.5	92.6
1600	77.7	78.5	88.3	89.0	87.3	88.9	90.6
2000	75.0	75.7	85.1	85.8	85.6	87.1	88.4
2500	71.9	72.7	81.4	82.1	83.5	85.0	85.7
3150	68.5	69.3	77.3	78.0	81.1	82.6	82.6
4000	64.7	65.3	72.7	73.3	78.3	79.5	78.7
5000	60.4	60.9	67.8	68.2	75.0	75.9	74.5
6300	55.8	56.1	62.5	62.8	71.4	72.0	69.9
8000	51.8	52.0	58.3	58.5	68.4	68.7	66.5
10000	47.4	47.4	53.6	53.6	65.1	65.1	62.4
12500	42.7	42.7	48.5	48.5	61.3	61.3	58.3
16000	37.5	37.5	42.5	42.5	57.1	57.1	53.3
20000	31.8	31.8	35.2	35.2	52.4	52.4	47.0
25000	25.7	25.7	25.9	25.9	47.3	47.3	38.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111F APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-079-105-280176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-111F APPROACH POWER
81 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-G79-105-280176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F-111F INTERMEDIATE POWER 86 % RPM

AIRSPEED = 350 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-079-106-280176

PNLT = 104.3 PNDB
PNL = 104.3 PNDB
ALT = 92.6 DBA
AL = 92.6 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111F

OPERATION: INTERMEDIATE POWER, 86 % RPM, AIRSPEED = 350 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 079
OPS CODE: 106
PROFILE VER: A
28 JAN 75
PAGE H4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																						
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	79	79	78	89	97	98	93	93	98	99	100	99	99	99	98	98	99	98	98	96	91	88	88	90
250	77	77	76	87	95	96	91	91	96	97	98	97	97	96	96	96	96	96	95	93	89	86	85	87
315	75	75	74	85	93	94	89	89	94	95	96	95	95	94	94	94	94	93	93	91	86	83	81	83
400	73	73	72	83	91	91	87	87	92	93	94	93	93	92	92	92	92	91	90	88	83	80	78	78
500	71	71	70	81	89	89	85	85	90	91	92	91	90	90	89	90	89	89	88	85	80	76	73	73
630	69	69	68	79	87	87	83	83	88	89	90	89	88	88	87	87	87	86	85	82	77	72	69	67
800	67	67	66	77	85	85	81	81	86	87	88	87	86	86	85	85	84	83	82	79	73	68	63	60
1000	65	65	64	75	83	83	79	79	84	84	86	84	84	83	82	82	82	80	79	75	69	63	57	51
1250	63	63	62	73	81	81	77	77	82	82	83	82	81	81	80	79	79	77	75	70	64	57	49	41
1600	61	61	60	71	79	79	75	75	79	80	81	80	79	78	77	77	76	74	71	66	59	50	40	29
2000	59	59	58	69	77	77	73	72	77	78	79	77	76	75	74	73	72	70	66	60	52	42	29	14
2500	57	57	56	67	75	75	71	70	75	75	76	75	74	73	71	70	68	65	61	53	45	32	16	
3150	55	55	54	65	73	73	68	68	73	73	74	72	71	69	68	66	64	60	55	46	36	21	0	
4000	53	53	52	63	70	71	66	66	70	70	71	69	68	66	64	62	59	54	48	36	26	7		
5000	51	51	50	60	68	68	64	63	68	68	68	66	64	62	60	57	53	48	39	25	13			
6300	49	49	47	58	66	66	61	61	65	65	65	63	61	58	55	51	47	39	29	12				
8000	47	47	45	56	64	63	59	58	62	62	62	59	56	53	49	45	39	30	17					
10000	44	44	43	54	61	61	56	55	59	58	58	55	52	48	43	37	30	18	2					
12500	42	42	41	51	59	58	53	52	56	55	54	50	46	41	35	28	19	4						
16000	40	40	38	49	56	55	50	49	52	50	49	44	40	34	26	17	5							
20000	38	37	36	46	53	52	47	45	48	46	43	38	32	25	16	4								
25000	35	35	33	43	50	49	43	41	43	40	37	31	23	14	2									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: F-111F

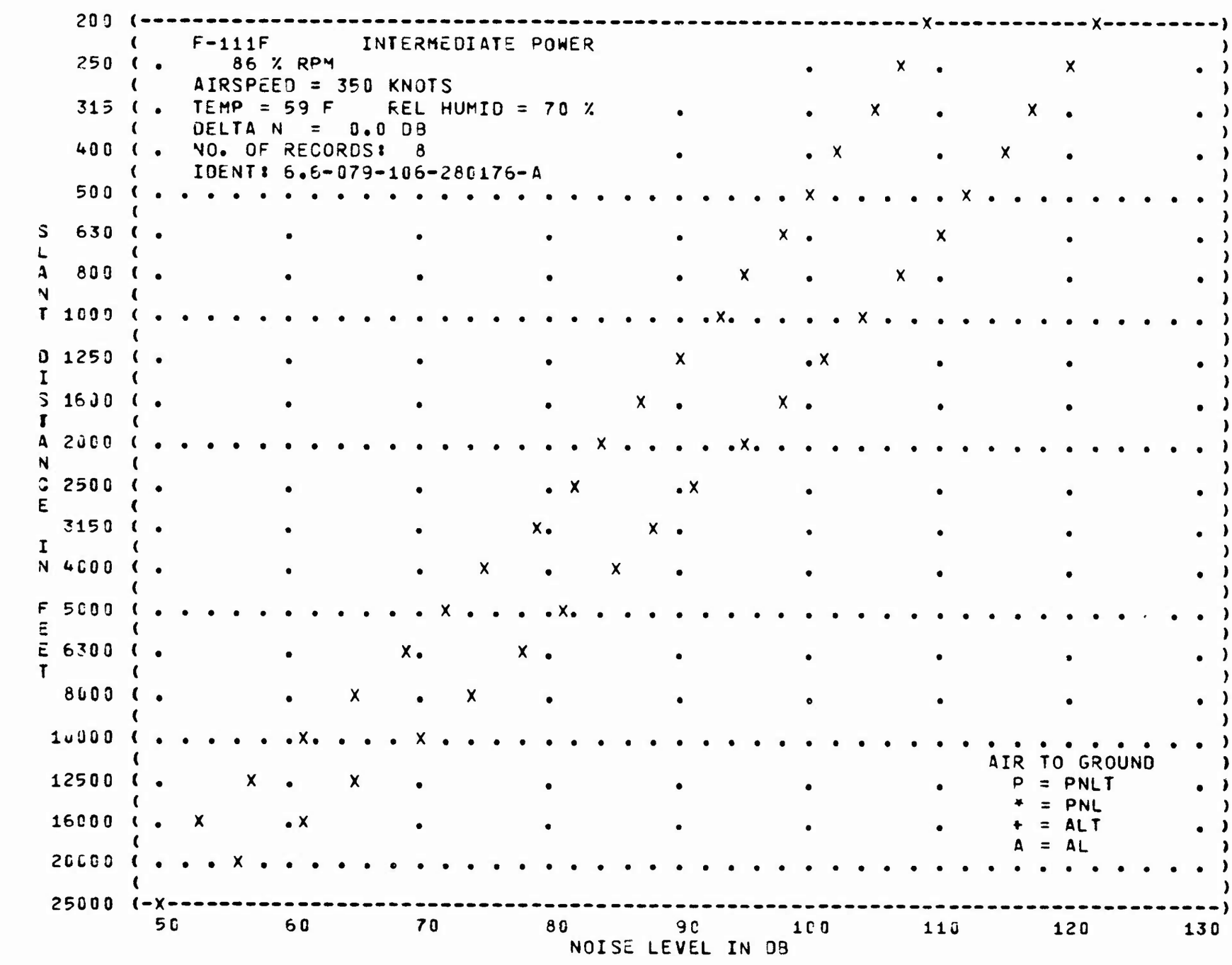
OPERATION: INTERMEDIATE POWER, 86 % RPM, AIRSPEED = 350 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 079
OPS CODE: 106
PROFILE VER: A
28 JAN 76
PAGE I4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	108.9	108.9	122.1	122.1	106.6	107.8	110.8
250	106.8	106.8	119.8	119.8	105.4	106.6	109.5
315	104.5	104.5	117.5	117.5	104.2	105.4	108.1
400	102.3	102.3	115.0	115.0	102.9	104.1	106.7
500	99.9	99.9	112.5	112.5	101.6	102.8	105.2
630	97.6	97.6	109.9	109.9	100.2	101.4	103.5
800	95.1	95.1	107.2	107.2	98.8	100.0	101.8
1000	92.6	92.6	104.3	104.3	97.2	98.4	100.0
1250	90.0	90.0	101.3	101.3	95.6	96.8	98.0
1600	87.3	87.3	98.1	98.1	93.9	95.	95.8
2000	84.5	84.5	94.8	94.8	92.1	93.3	93.5
2500	81.5	81.5	91.4	91.4	90.2	91.4	91.1
3150	78.5	78.5	88.2	88.2	88.2	89.4	88.8
4000	75.3	75.3	84.8	84.8	86.0	87.0	86.2
5000	72.0	72.0	81.3	81.3	83.7	84.4	83.5
6300	68.6	68.6	77.6	77.6	81.2	81.7	80.5
8000	64.9	64.9	73.7	73.7	78.6	78.8	77.4
10000	61.0	61.0	69.7	69.7	75.7	75.7	74.2
12500	57.0	57.0	65.3	65.3	72.6	72.6	70.8
16000	52.6	52.6	60.6	60.6	69.3	69.3	67.1
20000	48.0	48.0	55.8	55.8	65.7	65.7	63.3
25000	43.2	43.2	50.3	50.3	61.9	61.9	58.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111F INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-079-106-280176-A
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

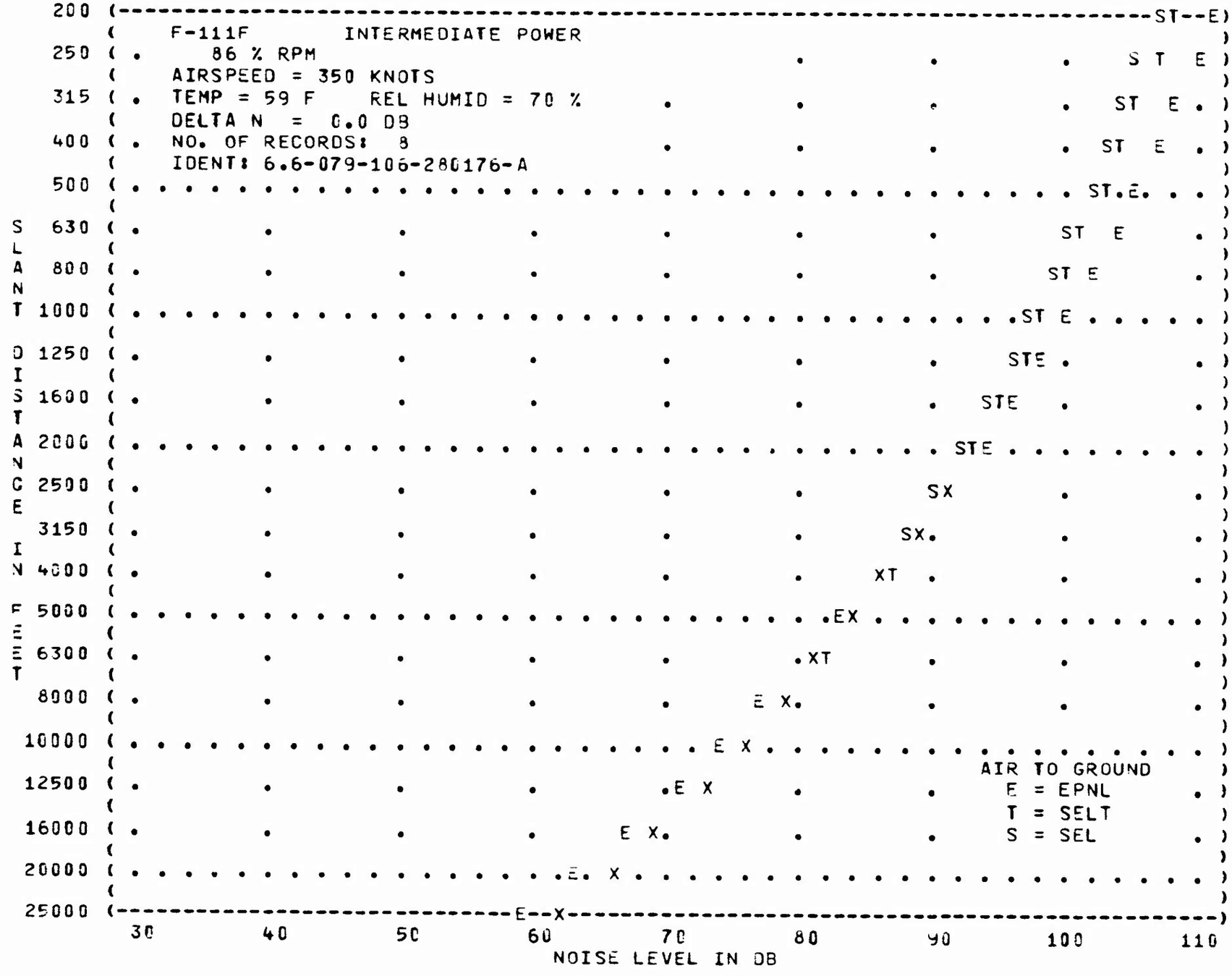

F-111F INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-079-106-280176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111F

OPERATION: INTERMEDIATE POWER, 86 % RPM, AIRSPEED = 350 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 079
OPS CODE: 106
PROFILE VER: A
28 JAN 76
PAGE L4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	74	74	73	84	92	93	88	88	93	94	95	94	94	94	93	93	94	93	93	91	86	83	83	85
250	72	72	71	82	90	91	86	86	91	92	93	92	92	91	91	91	91	91	90	88	84	81	80	82
315	70	70	69	80	88	89	84	84	89	90	91	90	90	89	89	89	89	88	88	86	81	78	76	78
400	68	68	67	78	86	86	82	82	87	88	89	88	88	87	87	87	87	86	85	83	78	75	73	73
500	66	66	65	76	84	84	80	80	85	86	87	86	85	85	84	85	84	84	83	80	75	71	68	68
630	64	64	63	74	81	81	77	77	83	84	85	84	83	83	82	82	82	81	80	77	72	67	64	62
800	62	62	61	72	79	79	74	75	81	82	83	82	81	81	80	80	79	78	77	74	68	63	58	55
1000	60	60	59	69	76<	76	71	72	79	79	81	79	79	78	77	77	77	75	74	70	64	58	52	46
1250	58	58	56	66	73	72	68	68	76	77	78	77	76	76	75	74	74	72	70	65	59	52	44	36
1600	56	55	53	62	69	69	65	65	72	75	76	75	74	73	72	72	71	69	66	61	54	45	35	24
2000	53	52	49	58	65	65	61	61	69	73	74	72	71	70	69	68	67	65	61	55	47	37	24	9
2500	49	48	45	54	61	61	57	57	65	69	71	70	69	68	66	65	63	60	56	48	40	27	11	
3150	46	43	40	49	56	56	52	52	60	65	68	67	66	64	63	61	59	55	50	41	31	16		
4000	41	38	35	44	50	50	46	46	55	60	64	63	63	61	59	57	54	49	43	31	21	2		
5000	36	33	30	39	46	45	41	41	49	54	60	59	59	57	55	52	48	43	34	20	8			
6300	31	29	25	34	41	40	36	36	43	49	55	55	55	53	50	46	42	34	24	7				
8000	29	27	23	32	39	38	33	33	40	46	52	51	50	48	44	40	34	25	12					
10000	26	24	21	30	36	35	31	30	37	42	48	47	46	43	38	32	25	13						
12500	24	22	19	27	34	33	28	27	34	39	44	42	40	36	30	23	14							
16000	22	20	16	25	31	30	25	24	30	34	39	36	34	29	21	12	0							
20000	20	17	14	22	28	27	21	20	26	30	33	30	26	20	11									
25000	17	15	11	19	25	23	18	16	21	24	27	23	17	9										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F-111F

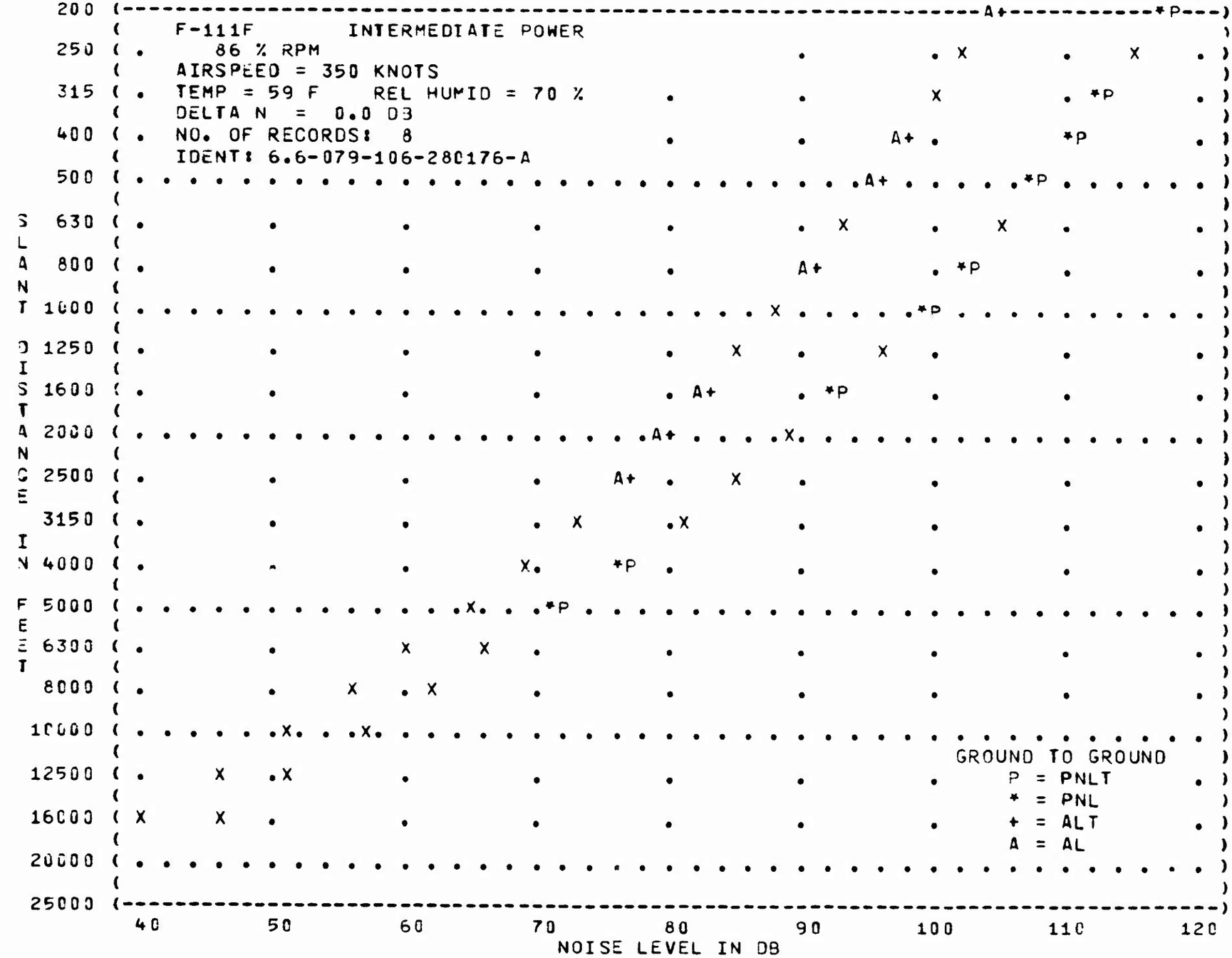
OPERATION: INTERMEDIATE POWER, 86 % RPM, AIRSPEED = 350 KNOTS

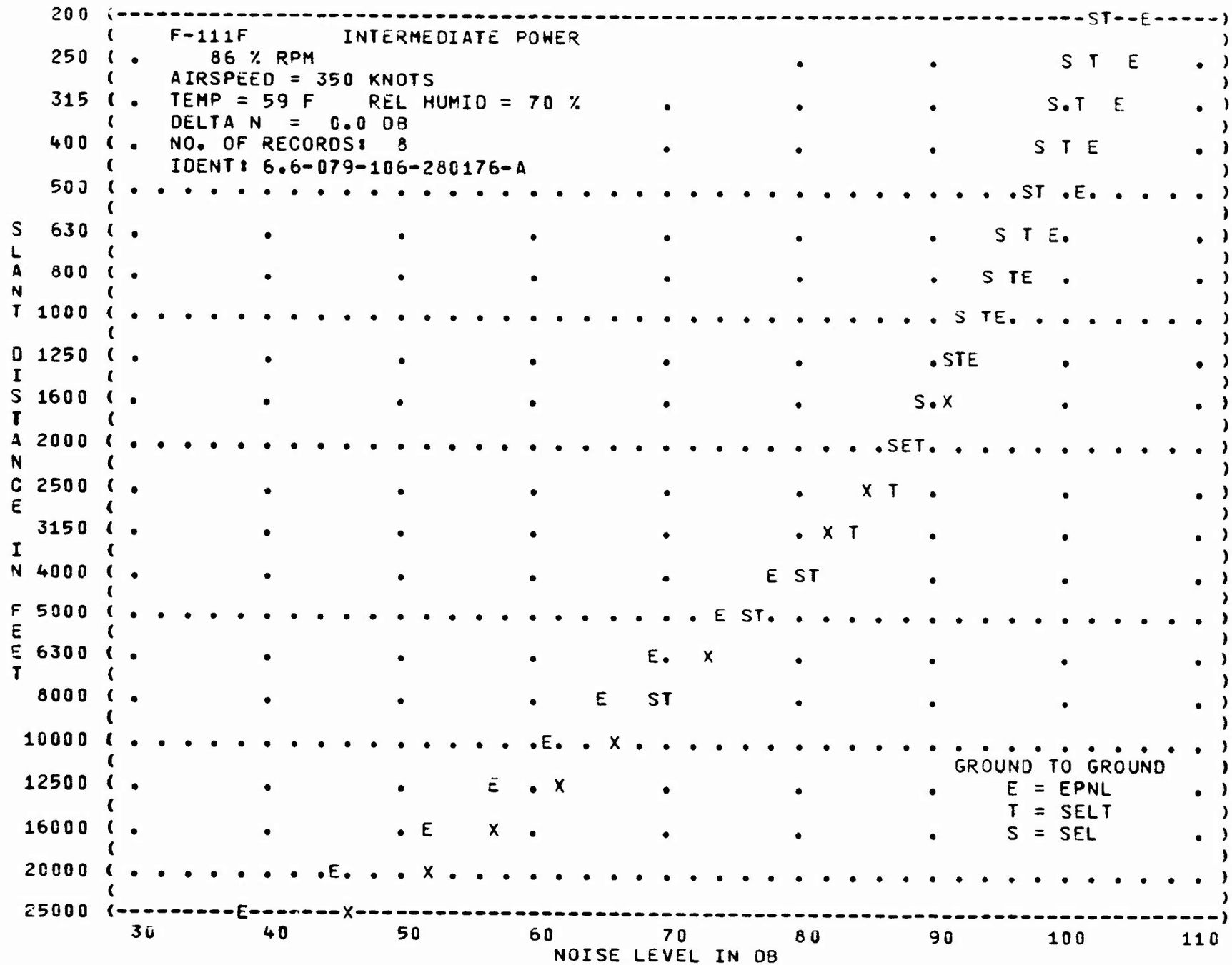
METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 079
OPS CODE: 106
PROFILE VER: A
28 JAN 76
PAGE M4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	103.9	104.5	117.1	117.7	101.6	103.4	106.4
250	101.8	102.3	114.8	115.4	100.4	102.2	105.1
315	99.5	100.1	112.5	113.1	99.2	101.0	103.7
400	97.3	97.9	110.0	110.6	97.9	99.7	102.3
500	94.9	95.5	107.4	108.0	96.6	98.4	100.7
630	92.5	93.1	104.8	105.4	95.2	97.0	99.0
800	90.1	90.7	102.0	102.6	93.8	95.5	97.3
1000	87.5	88.1	99.0	99.6	92.2	94.0	95.3
1250	84.9	85.5	95.8	96.4	90.6	92.3	93.1
1600	82.1	82.7	92.4	93.0	88.8	90.6	90.7
2000	79.3	79.9	88.8	89.4	86.9	88.7	88.1
2500	76.1	76.7	84.9	85.5	84.8	86.6	85.2
3150	72.7	73.3	80.8	81.4	82.4	84.2	82.1
4000	68.9	69.4	76.3	76.8	79.6	81.0	78.2
5000	64.7	65.0	71.3	71.7	76.3	77.4	73.9
6300	60.0	60.3	66.1	66.3	72.7	73.4	69.3
8000	55.7	55.8	61.6	61.7	69.4	69.7	65.5
10000	51.0	51.0	56.8	56.8	65.7	65.7	61.3
12500	45.9	45.9	51.5	51.5	61.6	61.6	57.0
16000	40.3	40.3	45.5	45.5	57.0	57.0	52.0
20000	34.2	34.2	37.4	37.4	51.9	51.9	44.9
25000	27.5	27.5	29.0	29.0	46.1	46.1	37.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F-111F INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-079-106-280176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F-111F INTERMEDIATE POWER
86 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-079-106-280176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL

USAF F-111F AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

F-111F AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-079-001
AIRCRAFT CODE: 079
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING — PAGE

IDLE 65% RPM, 1.04 EPR, 1000 LBS/HR 730-735
IDLE 80% RPM, 1.44 EPR, 2650 LBS/HR 736-741
IDLE 85% RPM, 1.63 EPR, 4200 LBS/HR 742-747
MIL 95% RPM, 2.21 EPR, 8100 LBS/HR 748-753
AFTERBURNER PWR, ZONE 3 95% RPM, 2.25 EPR, 28100 LBS/HR . 754-759

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

06 APR 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 01
AIRCRAFT CODE 079
OPERATION CODE 02013
PROFILE VERSION A
06 APR 76
PAGE C1

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
IDLE, 65% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	66<	63	65	64	62	62	64	62	61	65	63	65	65	63	65	64	63	61<	41
63	66<	66	67	67	65	66	66	65	66	67	67	66	66	67	68	68	66	61<	41
80	66	71	73	73	73	75	73	72	72	72	74	74	74	74	75	75	73	61	41
100	64	71	73	72	71	74	71	70	71	74	75	76	75	75	75	77	73	62	42
125	60	66	67	67	64	64	65	65	68	70	71	71	70	69	69	70	68	58	38
160	62	68	68	66	62	62	67	68	69	71	70	72	75	72	72	71	70	60	40
200	64	70	68	64	62	63	65	63	65	68	69	70	71	71	69	68	71	57	37
250	66	71	68	66	64	64	65	64	65	67	67	67	68	68	68	67	71	58	38
315	66	72	69	68	64	65	65	62	61	63	63	64	67	69	68	72	71	60	40
400	67	72	69	69	65	62	65	60	59	59	61	63	65	66	67	71	70	60	40
500	68	69	70	72	67	64	66	61	64	61	62	64	64	65	66	69	70	60	40
630	68	69	72	72	67	63	66	61	62	60	60	62	62	65	65	67	67	57	37
800	75	78	82	79	75	72	71	69	66	64	65	64	64	67	65	67	68	59	39
1000	76	78	81	79	76	73	72	71	66	65	64	64	65	65	64	66	66	57	37
1250	75	78	78	78	76	73	72	69	65	62	63	63	65	65	63	64	63	55	35
1600	90	96	95	92	87	82	83	80	78	72	70	71	69	72	76	75	74	66	46
2000	89	95	94	92	88	84	83	81	78	76	75	75	73	76	78	79	77	69	49
2500	82	86	84	85	82	79	77	75	73	71	71	70	73	75	71	69	69	63	43
3150	82	86	84	84	83	79	76	75	73	71	71	70	70	70	69	68	68	62	42
4000	84	88	87	86	86	82	79	78	76	76	75	74	75	75	74	71	70	64	44
5000	80	84	82	81	80	76	74	73	69	70	69	69	72	72	69	67	66	56	36
6300	78	81	80	79	79	75	73	71	68	70	69	70	73	74	70	67	65	56	36
8000	74	77	76	75	75	71	70	67	64	69	66	67	69	69	65	64	63	52<	32
10000	70	73	72	70	71	66	65	62	62	67	64	64	67	66	63	61	60	48	28
OVERALL	94	99	99	97	93	90	89	87	85	84	84	84	84	85	85	85	84	75	55

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
IDLE, 65% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 01
AIRCRAFT CODE 079
OPERATION CODE 02013
PROFILE VERSION A
06 APR 76
PAGE D1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	109.0	113.7	113.1	111.7	109.0	105.2	104.0	102.2	100.1	100.1	99.0	98.9	99.8	100.2	99.5	99.6	98.6	89.9	69.3
250	106.8	111.5	110.9	109.4	106.6	102.9	101.8	99.8	97.7	97.7	96.7	96.5	97.4	97.8	97.3	97.4	96.4	87.6	67.0
315	104.5	109.2	108.6	107.1	104.2	100.4	99.5	97.4	95.3	95.2	94.2	94.1	95.0	95.4	94.9	95.1	94.1	85.3	64.6
400	102.1	106.8	106.2	104.8	101.6	97.9	97.1	94.9	92.7	92.7	91.7	91.5	92.4	92.8	92.5	92.7	91.7	83.0	62.1
500	99.7	104.4	103.8	102.3	99.0	95.3	94.6	92.4	90.1	90.0	89.0	88.8	89.7	90.1	90.1	90.3	89.3	80.5	59.5
630	97.1	101.8	101.2	99.8	96.3	92.7	92.0	89.8	87.4	87.1	86.1	86.0	86.8	87.4	87.5	87.7	86.7	77.9	56.7
800	94.4	99.1	98.6	97.1	93.6	90.0	89.3	87.0	84.7	84.0	83.0	83.0	83.7	84.5	84.7	85.0	84.0	75.2	53.9
1000	91.5	96.3	95.7	94.3	90.7	87.1	86.4	84.2	81.8	84.6	79.8	80.0	80.4	81.5	81.8	82.2	81.1	72.3	50.7
1250	88.5	93.3	92.7	91.3	87.6	84.0	83.4	81.0	78.7	77.2	76.7	76.9	77.1	78.2	78.7	79.1	78.1	69.2	47.0
1600	85.2	90.0	89.5	88.0	84.2	80.6	80.1	77.7	75.4	73.8	73.3	73.5	73.5	74.7	75.4	75.9	74.8	65.9	43.0
2000	81.8	86.6	86.1	84.5	80.7	77.9	76.5	74.1	71.7	70.0	69.5	69.7	69.7	71.1	71.8	72.3	71.3	62.3	38.0
2500	78.1	82.9	82.4	80.7	76.7	73.1	72.6	70.2	67.8	65.9	65.4	65.6	65.3	67.0	67.8	68.4	67.4	58.2	32.1
3150	74.0	78.9	78.5	76.5	72.4	68.7	68.3	65.8	63.3	61.3	60.8	61.1	60.6	62.5	63.3	64.0	63.0	53.6	24.6
4000	69.6	74.5	74.1	71.9	67.6	63.8	63.6	60.8	58.2	56.1	55.6	55.8	55.3	57.2	58.2	59.0	58.0	48.6	15.8
5000	64.7	69.6	69.2	67.0	62.6	58.3	58.5	55.3	52.8	50.0	49.5	49.8	49.2	51.4	52.3	53.2	52.4	42.1	6.9
6300	59.1	64.0	63.7	61.5	56.9	52.3	52.8	49.5	46.9	42.7	42.1	42.4	41.4	44.2	45.8	47.0	45.7	34.1	
8000	52.8	57.9	57.6	55.4	50.6	45.9	46.6	42.3	39.1	33.9	33.2	33.9	32.9	36.2	37.9	39.2	38.0	22.7	
10000	45.6	50.8	50.6	48.3	42.8	36.7	37.9	32.9	29.4	20.8	20.3	21.2	21.3	25.3	28.0	29.8	30.4	11.4	
12500	35.0	41.7	41.6	38.7	32.0	23.8	25.6	18.9	11.9	7.7	7.4	8.4	9.7	12.6	13.7	18.9	21.2	.0	
16000	18.3	27.7	29.3	24.7	15.7	7.9	6.7	4.8								7.0	10.0		
20000	1.6	13.7	13.6	7.6															
25000																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
IDLE, 65% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 01
AIRCRAFT CODE 079
OPERATION CODE 02013
PROFILE VERSION A
06 APR 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	111.8	116.8	116.1	114.0	111.2	106.9	105.9	104.3	102.4	102.0	100.7	100.6	101.1	101.6	101.9	102.2	100.9	91.8	71.2
250	109.5	114.5	113.9	111.8	108.8	104.5	103.7	101.9	100.0	99.7	98.4	98.3	98.7	99.2	99.6	99.9	98.7	89.6	68.9
315	107.2	112.2	111.6	109.5	106.4	102.1	101.4	99.5	97.6	97.2	95.9	95.8	96.3	96.8	97.3	97.6	96.4	87.3	66.5
400	104.8	109.9	109.2	107.2	103.8	99.6	99.0	96.9	95.0	94.6	93.4	93.3	93.7	94.2	94.9	95.3	94.0	84.9	64.0
500	102.4	107.4	106.8	104.7	101.2	97.0	96.5	94.4	92.4	91.9	90.7	90.6	91.0	91.5	92.4	92.8	91.6	82.4	61.4
630	99.8	104.9	104.2	102.2	98.5	94.4	93.9	91.8	89.7	89.0	87.8	87.7	88.1	88.8	89.8	90.3	89.0	79.8	58.6
800	97.1	102.2	101.6	99.5	95.8	91.7	91.2	89.1	87.0	85.9	84.7	84.7	85.0	85.9	87.1	87.6	86.3	77.1	55.8
1000	94.2	99.3	98.7	96.7	92.9	88.8	88.4	86.2	84.1	82.6	81.5	81.8	81.7	82.9	84.2	84.7	83.5	74.2	52.6
1250	91.2	96.3	95.7	93.6	89.8	85.6	85.3	83.1	81.0	79.2	78.4	78.6	78.4	79.6	81.1	81.7	80.4	71.2	48.9
1600	87.9	93.0	92.5	90.4	86.4	82.3	82.0	79.8	77.7	75.7	75.0	75.2	74.8	76.1	77.7	78.4	77.2	67.8	44.9
2000	84.5	89.6	89.1	86.9	82.9	78.7	78.4	76.2	74.0	72.0	71.2	71.5	70.9	72.4	74.1	74.9	73.6	64.2	39.9
2500	80.8	86.0	85.4	83.1	78.9	74.8	74.5	72.3	70.0	67.9	67.1	67.4	66.6	68.3	70.1	70.9	69.7	60.1	34.0
3150	76.8	82.0	81.5	78.8	74.6	70.4	70.2	67.9	65.6	63.3	62.5	62.8	61.9	63.8	65.7	66.6	65.3	55.6	26.5
4000	71.7	76.9	76.5	73.8	69.3	65.1	65.1	62.5	60.1	57.7	57.0	57.2	56.3	58.3	60.0	61.1	59.9	50.1	17.3
5000	66.3	71.4	71.0	68.4	63.9	59.3	59.6	56.6	54.2	51.2	50.5	50.9	50.0	52.3	53.7	54.8	53.8	43.3	8.0
6300	60.2	65.2	64.9	62.5	57.8	53.0	53.5	50.3	47.9	43.5	42.8	43.1	42.0	44.8	46.8	48.0	46.7	34.9	
8000	53.4	58.5	58.2	55.8	51.1	46.2	47.0	42.7	39.5	34.3	33.6	34.3	33.2	36.5	38.3	39.7	38.5	23.1	
10000	45.6	50.8	50.6	48.3	42.8	36.7	37.9	32.9	29.4	20.8	20.3	21.2	21.3	25.3	28.0	29.8	30.4	11.4	
12500	35.0	41.7	41.6	38.7	32.0	23.8	25.6	18.9	11.9	7.7	7.4	8.4	9.7	12.6	13.7	18.9	21.2	.0	
16000	18.3	27.7	29.3	24.7	15.7	7.9	6.7	4.8								7.0	10.0		
20000	1.6	13.7	13.6	7.6															
25000																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
IDLE, 65% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 01
AIRCRAFT CODE 079
OPERATION CODE 02013
PROFILE VERSION A
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DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	97.6	102.5	101.8	100.0	96.5	92.4	91.6	89.4	86.8	85.2	84.2	84.1	84.8	85.8	85.6	85.3	84.4	76.4	56.4
250	95.4	100.3	99.6	97.8	94.3	90.2	89.4	87.2	84.6	82.9	81.9	81.8	82.4	83.5	83.4	83.1	82.2	74.2	54.2
315	93.1	98.1	97.4	95.5	92.0	87.9	87.1	84.9	82.3	80.5	79.6	79.4	80.0	81.1	81.1	80.9	80.0	72.0	52.0
400	90.8	95.8	95.1	93.3	89.6	85.5	84.8	82.5	79.9	78.1	77.1	77.0	77.5	78.7	78.8	78.6	77.7	69.7	49.7
500	88.5	93.4	92.8	90.9	87.2	83.1	82.4	80.1	77.5	75.5	74.6	74.5	74.9	76.1	76.3	76.3	75.4	67.3	47.3
630	86.0	91.0	90.4	88.5	84.6	80.5	80.0	77.6	75.0	72.8	72.0	71.9	72.2	73.5	73.8	73.8	73.0	64.8	44.8
800	83.5	88.5	87.9	85.9	82.0	77.9	77.4	75.0	72.4	70.1	69.2	69.1	69.4	70.7	71.2	71.3	70.4	62.3	42.3
1000	80.8	85.8	85.3	83.3	79.2	75.1	74.7	72.2	69.6	67.1	66.3	66.3	66.4	67.9	68.5	68.7	67.8	59.6	39.6
1250	78.0	83.1	82.5	80.5	76.3	72.2	71.9	69.4	66.7	64.1	63.3	63.3	63.3	64.9	65.7	65.9	65.1	56.8	36.8
1600	75.0	80.1	79.6	77.5	73.3	69.2	68.9	66.3	63.7	60.8	60.1	60.1	60.0	61.7	62.7	63.0	62.2	53.8	33.8
2000	71.9	77.0	76.5	74.4	70.0	65.9	65.7	63.1	60.4	57.4	56.7	56.8	56.6	58.4	59.5	59.9	59.1	50.7	30.7
2500	68.5	73.5	73.1	70.9	66.5	62.4	62.3	59.6	56.9	53.7	53.1	53.2	52.9	54.8	56.0	56.5	55.8	47.3	27.3
3150	64.7	69.8	69.4	67.2	62.7	58.6	58.6	55.8	53.2	49.8	49.2	49.4	49.0	51.0	52.3	52.8	52.2	43.6	23.6
4000	60.6	65.7	65.3	63.1	58.6	54.4	54.5	51.7	49.0	45.6	45.0	45.2	44.8	46.8	48.1	48.7	48.1	39.5	19.5
5000	56.0	61.0	60.8	58.5	54.0	49.8	50.0	47.2	44.4	40.9	40.4	40.6	40.2	42.2	43.5	44.1	43.7	34.9	14.9
6300	50.8	55.8	55.6	53.3	48.8	44.7	44.9	42.1	39.3	35.8	35.3	35.5	35.2	37.2	38.4	39.0	38.8	29.9	9.9
8000	45.0	49.8	49.9	47.6	43.2	39.2	39.3	36.6	33.7	30.5	30.2	30.4	30.3	32.3	33.1	34.0	34.0	24.9	4.9
10000	38.5	43.1	43.5	41.2	36.9	33.1	33.3	30.6	27.7	25.0	24.9	25.1	25.3	27.2	27.5	28.9	29.1	19.7	
12500	31.3	35.5	36.6	34.3	30.2	26.7	26.8	24.2	21.5	19.2	19.5	19.8	20.2	21.9	21.9	23.7	24.1	14.5	
16000	23.8	27.3	29.2	27.1	23.1	19.8	20.1	17.4	15.1	13.4	13.9	14.3	14.9	16.5	16.4	18.5	19.0	9.1	
20000	16.0	19.0	21.6	19.6	15.7	12.7	13.1	10.3	8.7	7.5	8.2	8.9	9.5	10.9	10.9	13.1	13.5	3.4	
25000	8.2	10.9	13.5	11.9	7.9	5.2	6.0	2.9	2.3	1.8	2.6	3.5	4.2	5.1	5.2	7.5	7.7		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
IDLE, 65% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 01
AIRCRAFT CODE 079
OPERATION CODE 02013
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DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	100.3	105.5	104.8	102.4	98.7	94.1	93.5	91.5	89.1	87.2	85.9	85.8	86.1	87.2	88.0	87.9	86.7	78.3	58.3
250	98.1	103.3	102.6	100.2	96.5	91.9	91.3	89.2	86.9	84.9	83.6	83.5	83.7	84.9	85.7	85.7	84.5	76.1	56.1
315	95.8	101.1	100.4	97.9	94.2	89.6	89.1	87.0	84.6	82.5	81.2	81.2	81.3	82.5	83.5	83.4	82.3	73.9	53.9
400	93.5	98.8	98.1	95.6	91.8	87.2	86.7	84.6	82.2	80.0	78.8	78.7	78.8	80.0	81.1	81.2	80.0	71.6	51.6
500	91.2	96.5	95.8	93.3	89.4	84.8	84.4	82.2	79.8	77.5	76.3	76.2	76.2	77.5	78.7	78.8	77.7	69.2	49.2
630	88.7	94.0	93.4	90.8	86.8	82.2	81.9	79.7	77.3	74.8	73.7	73.6	73.5	74.9	76.2	76.4	75.3	66.7	46.7
800	86.2	91.5	90.9	88.3	84.2	79.6	79.3	77.1	74.7	72.0	70.9	70.9	70.7	72.1	73.6	73.9	72.8	64.2	44.2
1000	83.5	88.9	88.3	85.7	81.4	76.8	76.6	74.3	71.9	69.1	68.0	68.0	67.7	69.3	70.9	71.2	70.1	61.5	41.5
1250	80.7	86.1	85.5	82.9	78.5	73.9	73.8	71.4	69.0	66.1	65.0	65.0	64.6	66.3	68.0	68.5	67.4	58.7	38.7
1600	77.8	83.2	82.6	79.9	75.5	70.8	70.8	68.4	66.0	62.8	61.8	61.9	61.3	63.1	65.0	65.6	64.5	55.8	35.8
2000	74.8	80.0	79.5	76.8	72.2	67.6	67.6	65.2	62.7	59.4	58.4	58.5	57.9	59.8	61.8	62.5	61.4	52.6	32.6
2500	71.2	76.6	76.1	73.3	68.7	64.0	64.2	61.7	59.2	55.7	54.8	55.0	54.2	56.2	58.4	59.1	58.1	49.2	29.2
3150	67.4	72.9	72.4	69.6	64.9	60.2	60.5	57.9	55.5	51.8	50.9	51.1	50.3	52.4	54.6	55.3	54.5	45.5	25.5
4000	62.8	68.1	67.7	65.0	60.3	55.8	56.0	53.4	50.9	47.2	46.3	46.6	45.8	47.9	50.0	50.7	50.0	41.0	21.0
5000	57.6	62.9	62.6	59.9	55.3	50.8	51.1	48.4	45.8	42.1	41.4	41.6	40.9	43.0	44.9	45.6	45.0	36.1	16.1
6300	51.9	57.0	56.8	54.3	49.7	45.4	45.7	43.0	40.2	36.6	36.0	36.2	35.7	37.8	39.3	40.0	39.7	30.7	10.7
8000	45.5	50.4	50.5	48.1	43.6	39.5	39.7	37.0	34.2	30.9	30.6	30.8	30.6	32.5	33.5	34.5	34.5	25.3	5.3
10000	38.5	43.1	43.5	41.2	36.9	33.1	33.3	30.6	27.7	25.0	24.9	25.1	25.3	27.2	27.5	28.9	29.1	19.7	
12500	31.3	35.5	36.6	34.3	30.2	26.7	26.8	24.2	21.5	19.2	19.5	19.8	20.2	21.9	21.9	23.7	24.1	14.5	
16000	23.8	27.3	29.2	27.1	23.1	19.8	20.1	17.4	15.1	13.4	13.9	14.3	14.9	16.5	16.4	18.5	19.0	9.1	
20000	16.0	19.0	21.6	19.6	15.7	12.7	13.1	10.3	8.7	7.5	8.2	8.9	9.5	10.9	10.9	13.1	13.5	3.4	
25000	8.2	10.9	13.5	11.9	7.9	5.2	6.0	2.9	2.3	1.8	2.6	3.5	4.2	5.1	5.2	7.5	7.7		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

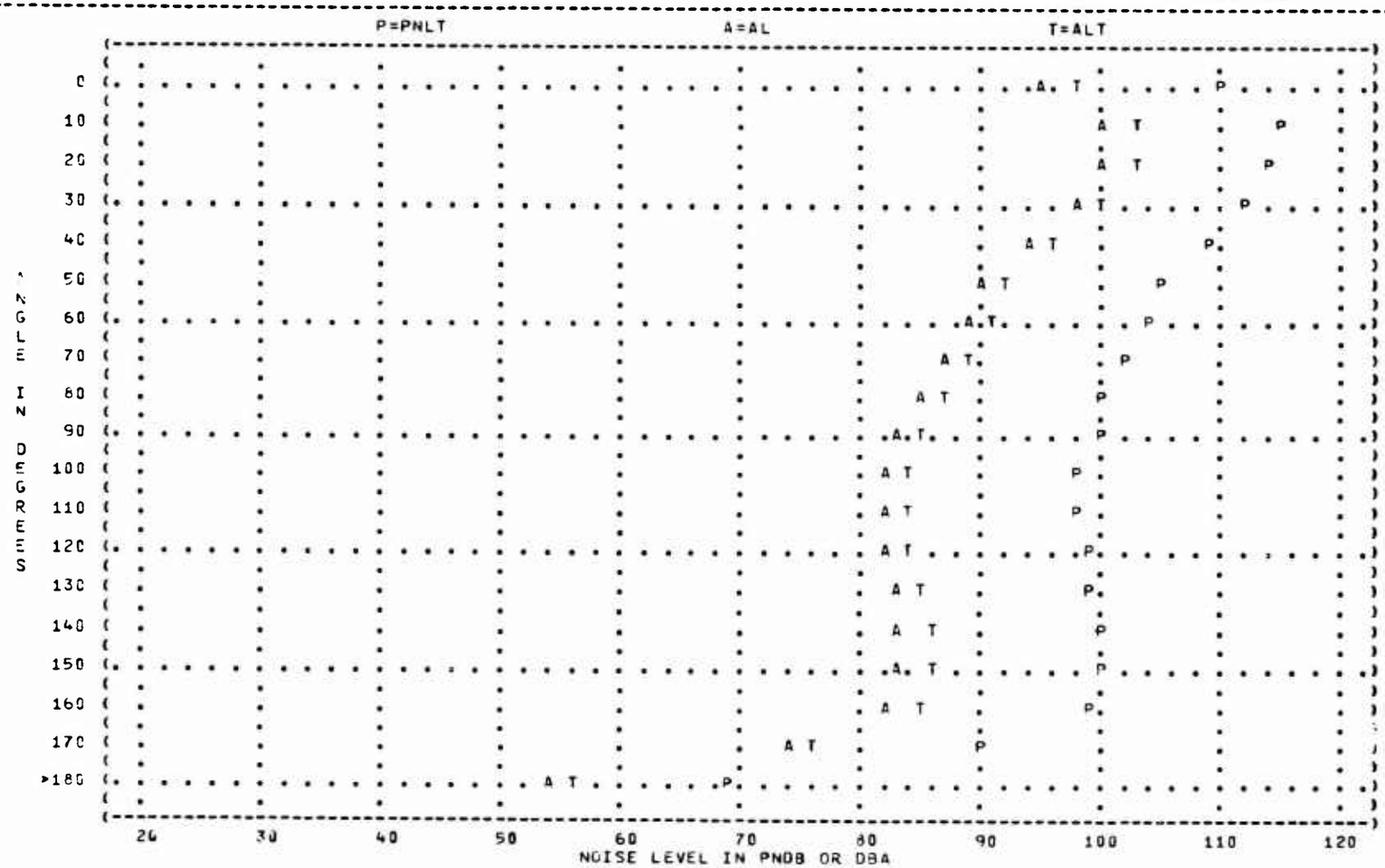
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
IDLE, 65% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 01
AIRCRAFT CODE 079
OPERATION CODE 02013
PROFILE VERSION A
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PAGE J1



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 02
AIRCRAFT CODE 079
OPERATION CODE 02019
PROFILE VERSION A
06 APR 76
PAGE C2

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	73	72	75	72	75	75	76	75	76	77	79	81	83	88	92	93	92	82	72
63	73	75	76	76	76	75	77	78	80	79	81	82	86	91	96	97	93	83	73
80	76	77	79	80	80	79	81	81	83	81	82	85	88	93	98	100	95	85	75
100	78	79	81	84	84	83	83	83	84	86	87	88	90	96	100	104	100	90	80
125	79	80	82	82	82	79	81	83	85	85	87	88	90	94	97	103	99	89	79
160	82	83	83	81	80	80	82	84	86	86	87	89	91	94	96	101	100	90	80
200	82	82	83	80	80	80	81	81	83	83	86	87	89	92	95	95	96	86	76
250	82	82	82	82	80	81	83	84	84	83	83	83	86	89	93	91	92	82	72
315	80	82	82	80	80	80	79	79	80	77	79	80	83	87	89	91	89	79	69
400	80	81	81	81	77	77	76	76	77	75	76	78	80	84	86	87	85	75	65
500	80	79	81	80	75	76	75	77	76	75	74	79	78	83	84	85	83	73	63
630	80	79	81	80	76	77	77	77	78	76	76	79	78	82	82	83	81	71	61
800	79	78	81	79	76	77	76	76	76	76	76	78	77	81	80	82	78	68	58
1000	80	81	83	80	78	78	77	77	77	75	75	78	77	80	79	79	75	65	55
1250	86	86	86	83	83	81	80	80	77	75	76	77	76	78	77	77	74	64	54
1600	89	88	88	87	85	84	82	81	78	75	76	77	75	78	77	77	74	64	54
2000	88	87	88	87	84	83	81	80	77	77	77	77	76	78	77	76	73	63	53
2500	96	94	94	93	91	89	87	87	83	80	79	79	77	78	77	77	75	65	55
3150	99	98	98	97	96	93	92	92	89	86	86	85	81	82	81	82	80	70	60
4000	92	91	91	90	90	88	86	87	84	84	66	86	83	83	80	79	77	67	57
5000	92	90	90	88	88	86	84	84	80	79	78	78	77	76	75	74	73	63	53
6300	91	89	89	88	88	86	84	85	81	80	79	78	77	77	75	74	74	64	54
8000	86	85	84	83	83	80	79	80	77	78	77	77	75	75	73	72	71	61	51
10000	83	82	81	80	79	78	76	76	73	75	75	74	71	72	70	69	68	58	48
OVERALL	103	102	102	101	100	98	97	97	96	95	96	97	98	102	106	109	106	96	86

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 02
AIRCRAFT CODE 079
OPERATION CODE 02019
PROFILE VERSION A
06 APR 76
PAGE 02

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	120.6	119.3	119.5	118.4	117.3	115.3	114.2	114.1	112.0	110.1	110.3	110.8	109.7	111.4	111.6	113.7	111.6	101.6	91.3
250	118.3	117.0	117.2	116.1	115.0	113.0	111.9	111.8	109.7	107.8	108.0	108.4	107.4	109.1	109.4	111.6	109.5	99.4	89.2
315	115.9	114.6	114.8	113.7	112.6	110.7	109.6	109.5	107.4	105.5	105.6	106.1	105.0	106.8	107.3	109.4	107.4	97.2	86.9
400	113.4	112.1	112.4	111.2	110.1	108.2	107.1	107.0	104.9	103.0	103.2	103.6	102.5	104.3	105.0	107.2	105.1	94.9	84.6
500	110.8	109.5	109.8	108.6	107.5	105.6	104.5	104.4	102.4	100.4	100.6	100.9	99.9	101.8	102.-	104.9	102.7	92.5	82.0
630	108.1	106.8	107.0	105.9	104.8	102.9	101.8	101.7	99.7	97.7	97.9	98.1	97.2	99.1	100.4	102.4	100.2	89.9	79.2
800	105.1	103.9	104.1	103.0	101.9	99.9	98.9	98.8	96.8	94.8	95.0	95.2	94.2	96.2	97.8	99.9	97.4	87.1	76.3
1000	102.0	100.8	101.0	99.9	98.7	96.8	95.7	95.6	93.7	91.6	91.8	92.1	91.0	93.2	94.9	97.0	94.6	84.1	73.2
1250	98.6	97.4	97.6	96.5	95.3	93.4	92.3	92.2	90.3	88.2	88.4	88.7	87.5	90.0	91.8	93.9	91.4	80.8	69.8
1600	94.9	93.7	93.9	92.8	91.6	89.7	88.6	88.5	86.6	84.5	84.7	85.0	83.8	86.3	88.3	90.5	88.0	77.1	66.1
2000	90.8	89.6	89.9	88.7	87.4	85.6	84.5	84.4	82.5	80.5	80.7	81.0	79.9	82.4	84.3	86.7	84.1	73.1	62.0
2500	86.2	85.0	85.4	84.2	82.8	81.0	80.0	79.8	78.0	75.9	76.1	76.6	75.4	78.1	79.7	82.1	79.6	68.7	57.2
3150	81.0	79.9	80.2	79.1	77.6	75.9	74.8	74.7	72.9	70.8	71.0	71.6	70.5	73.8	75.1	77.0	74.6	63.6	51.7
4000	75.7	74.3	74.7	73.7	71.7	70.0	69.0	68.8	67.1	64.9	65.1	65.8	65.4	69.0	70.2	71.5	69.2	58.3	45.8
5000	69.7	68.3	68.8	67.7	65.3	63.9	62.7	62.6	60.6	58.5	58.7	60.5	60.2	64.0	65.1	66.4	64.1	52.6	39.7
6300	63.0	61.6	62.1	61.1	58.6	57.5	56.5	55.9	54.3	52.4	52.5	55.0	54.5	58.5	59.7	61.1	58.7	46.5	30.8
8000	56.3	55.5	56.1	54.9	52.3	51.3	50.2	49.5	48.7	47.0	47.1	50.1	49.7	54.0	55.5	57.2	54.7	41.6	23.9
10000	49.4	48.4	49.1	47.5	44.3	43.4	42.7	42.7	42.8	41.0	41.3	44.5	44.3	49.1	51.1	52.8	50.1	36.4	15.1
12500	40.4	39.9	41.7	40.0	36.0	35.8	35.3	35.1	36.1	33.8	34.5	38.2	38.5	43.8	46.0	47.9	45.0	31.0	6.4
16000	32.5	31.9	34.1	32.3	26.0	26.6	26.1	27.2	27.7	24.5	25.9	31.2	31.8	37.6	40.2	42.5	39.8	22.3	
20000	21.8	19.7	24.0	22.0	12.4	13.9	12.0	14.0	14.7	10.8	10.2	20.1	21.4	30.9	33.9	36.8	33.9	7.1	
25000	7.8	7.5	9.9	7.8		1.1		.7	1.7			8.9	11.0	19.1	24.2	30.8	26.8		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 02
AIRCRAFT CODE 079
OPERATION CODE 02019
PROFILE VERSION A
05 APR 76
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	122.6	121.3	121.3	120.2	119.2	117.1	116.1	115.8	113.8	111.4	111.5	112.3	111.2	112.7	111.6	114.8	112.9	102.8	92.6
250	120.3	119.0	119.0	117.9	116.9	114.8	113.8	113.5	111.5	109.1	109.2	110.0	108.9	110.5	109.4	112.7	110.8	100.6	90.4
315	117.9	116.6	116.7	115.5	114.6	112.4	111.4	111.2	109.2	106.8	106.8	107.6	106.5	108.1	107.3	110.6	108.6	98.5	88.2
400	115.4	114.1	114.2	113.1	112.1	109.9	108.9	108.7	106.7	104.3	104.4	105.1	104.0	105.7	105.0	108.4	106.4	96.2	85.8
500	112.8	111.5	111.6	110.5	109.5	107.3	106.4	106.1	104.1	101.7	101.8	102.5	101.4	103.2	102.8	106.1	103.9	93.7	83.2
630	110.1	108.8	108.9	107.7	106.7	104.6	103.6	103.4	101.4	99.0	99.1	99.7	98.7	100.5	100.4	103.6	101.4	91.1	80.5
800	107.2	105.9	106.0	104.8	103.8	101.7	100.7	100.5	98.5	96.1	96.2	96.7	95.7	97.6	97.8	101.0	98.7	88.4	77.5
1000	104.0	102.8	102.9	101.7	100.7	98.6	97.6	97.3	95.4	92.9	93.0	93.6	92.5	94.6	94.9	98.2	95.8	85.4	74.5
1250	100.6	99.4	99.5	98.3	97.2	95.2	94.2	93.9	92.0	89.5	89.7	90.3	89.0	91.3	91.8	95.1	92.6	82.0	71.1
1600	96.9	95.6	95.8	94.6	93.5	91.4	90.5	90.2	88.3	85.8	85.9	86.6	85.3	87.7	88.3	91.6	89.2	78.4	67.4
2000	92.8	91.6	91.7	90.6	89.4	87.4	86.4	86.1	84.3	81.7	81.9	82.6	81.4	83.8	84.3	87.9	85.3	74.4	63.2
2500	88.2	87.0	87.2	86.0	84.8	82.8	81.8	81.6	79.8	77.2	77.3	78.1	76.9	79.5	79.7	83.3	80.8	69.9	58.4
3150	83.1	81.9	82.1	80.9	79.6	77.6	76.7	76.4	74.7	72.1	72.2	73.1	72.0	75.1	75.1	78.1	75.8	64.8	53.0
4000	77.3	75.9	76.2	75.2	73.3	71.4	70.4	70.2	68.5	66.0	66.1	67.1	66.6	70.1	70.2	72.4	70.2	59.3	46.8
5000	70.9	69.5	69.9	68.9	66.5	65.0	63.8	63.6	61.7	59.3	59.4	61.5	61.1	64.8	65.1	67.1	64.9	53.4	40.4
6300	63.8	62.4	62.9	61.8	59.3	58.2	57.2	56.6	55.0	52.9	53.0	55.7	55.1	59.0	59.7	61.6	59.2	47.0	31.3
8000	56.7	55.9	56.5	55.3	52.7	51.7	50.6	49.9	49.1	47.3	47.3	50.4	50.0	54.3	55.5	57.4	54.9	41.9	24.1
10000	49.4	48.4	49.1	47.5	44.3	43.4	42.7	42.7	42.8	41.0	41.3	44.5	44.3	49.1	51.1	52.8	50.1	36.4	15.1
12500	40.4	39.9	41.7	40.0	36.0	35.8	35.3	35.1	36.1	33.8	34.5	38.2	38.5	43.8	46.0	47.9	45.0	31.0	6.4
16000	32.5	31.9	34.1	32.3	26.0	26.6	26.1	27.2	27.7	24.5	25.9	31.2	31.8	37.6	40.2	42.5	39.8	22.3	
20000	21.8	19.7	24.0	22.0	12.4	13.9	12.0	14.0	14.7	10.8	10.2	20.1	21.4	30.9	33.9	36.8	33.9	7.1	
25000	7.8	7.5	9.9	7.8		1.1		.7	1.7			8.9	11.0	19.1	24.2	30.8	26.8		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 02
AIRCRAFT CODE 079
OPERATION CODE 02019
PROFILE VERSION A
06 APR 76
PAGE F2

DISTANCE	ANGLE (DEGREES)																		
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	106.1	104.6	104.7	103.6	102.4	100.3	98.8	98.7	96.0	94.3	94.5	94.6	93.2	95.1	95.7	97.3	95.7	85.7	75.7
250	103.8	102.3	102.4	101.3	100.1	98.0	96.5	96.4	93.7	91.9	92.1	92.3	90.9	92.9	93.6	95.3	93.6	83.6	73.6
315	101.5	99.9	100.0	98.9	97.7	95.6	94.1	94.0	91.4	89.5	89.7	90.0	88.6	90.7	91.5	93.2	91.5	81.5	71.5
400	99.0	97.4	97.6	96.4	95.2	93.1	91.7	91.5	88.9	87.1	87.3	87.5	86.3	88.5	89.3	91.0	89.4	79.4	69.4
500	96.4	94.9	95.0	93.9	92.6	90.5	89.1	89.0	86.4	84.5	84.7	85.0	83.8	86.1	87.0	88.8	87.1	77.1	67.1
630	93.7	92.2	92.4	91.2	89.9	87.8	86.4	86.2	83.7	81.8	82.0	82.4	81.3	83.7	84.6	86.4	84.7	74.7	64.7
800	90.9	89.4	89.5	88.4	87.0	85.0	83.6	83.4	80.9	78.9	79.1	79.6	78.6	81.1	82.1	83.9	82.1	72.1	62.1
1000	87.9	86.4	86.6	85.4	84.0	82.0	80.6	80.3	78.0	75.9	76.1	76.8	75.8	78.5	79.5	81.3	79.5	69.5	59.5
1250	84.7	83.2	83.4	82.3	80.7	78.8	77.4	77.1	74.8	72.8	73.0	73.7	72.9	75.7	76.7	78.4	76.6	66.6	56.6
1600	81.2	79.7	80.0	78.8	77.2	75.3	73.9	73.7	71.4	69.4	69.6	70.6	69.8	72.8	73.7	75.4	73.5	63.5	53.5
2000	77.4	76.0	76.3	75.2	73.4	71.6	70.3	70.0	67.9	65.9	66.1	67.3	66.6	69.8	70.6	72.2	70.2	60.2	50.2
2500	73.3	72.0	72.4	71.2	69.3	67.7	66.3	66.1	64.1	62.2	62.3	63.9	63.2	66.5	67.2	68.6	66.6	56.6	46.6
3150	68.9	67.7	68.1	66.9	64.9	63.4	62.1	61.9	60.2	58.4	58.4	60.3	59.6	62.9	63.5	64.8	62.7	52.7	42.7
4000	64.2	63.0	63.6	62.3	60.1	58.9	57.7	57.4	55.9	54.3	54.3	56.4	55.7	59.1	59.4	60.6	58.4	48.4	38.4
5000	59.0	58.1	58.8	57.3	55.1	54.1	52.9	52.7	51.5	49.9	49.9	52.2	51.4	54.9	55.1	56.2	53.9	43.9	33.9
6300	53.6	52.8	53.7	52.1	49.9	49.1	47.9	47.8	46.8	45.3	45.3	47.7	47.0	50.5	50.6	51.7	49.4	39.4	29.4
8000	48.2	47.5	48.6	46.9	44.6	44.1	43.1	43.1	42.4	41.1	41.1	43.7	43.0	46.6	47.0	48.3	46.0	36.0	26.0
10000	42.6	42.0	43.4	41.7	39.1	38.8	38.0	38.2	37.8	36.6	36.6	39.3	38.8	42.5	43.2	44.6	42.5	32.5	22.5
12500	36.8	36.3	37.8	36.2	33.4	33.4	32.2	33.0	33.0	31.8	31.8	34.7	34.4	38.2	39.1	40.8	38.7	28.7	18.7
16000	30.8	30.4	32.0	30.6	27.5	27.7	27.2	27.6	27.8	26.6	26.8	29.7	29.7	33.5	35.0	36.9	34.9	24.9	14.9
20000	24.7	24.3	26.0	24.8	21.4	21.7	21.5	22.0	22.4	21.3	21.7	24.4	24.8	28.7	30.7	33.0	31.0	21.0	11.0
25000	18.3	18.0	19.6	18.6	15.3	15.6	15.6	16.2	16.9	15.9	16.6	19.0	19.9	23.9	26.5	29.2	27.0	17.0	7.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 02
AIRCRAFT CODE 079
OPERATION CODE 02019
PROFILE VERSION A
06 APR 76
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	108.2	106.6	106.5	105.4	104.3	102.0	100.7	100.4	97.8	95.6	95.7	96.2	94.7	96.5	95.7	98.5	96.9	86.9	76.9
250	105.8	104.3	104.3	103.1	102.0	99.7	98.4	98.1	95.5	93.2	93.4	93.9	92.4	94.3	93.6	96.4	94.9	84.9	74.9
315	103.5	101.9	101.9	100.7	99.6	97.3	96.0	95.7	93.2	90.8	91.0	91.5	90.2	92.1	91.5	94.3	92.8	82.8	72.8
400	101.0	99.4	99.4	98.3	97.1	94.9	93.5	93.3	90.7	88.4	88.5	89.1	87.8	89.9	89.3	92.2	90.6	80.6	70.6
500	98.4	96.9	96.9	95.7	94.5	92.3	91.0	90.7	88.2	85.8	85.9	86.6	85.3	87.5	87.0	89.9	88.3	78.3	68.3
630	95.8	94.2	94.2	93.1	91.9	89.7	88.3	88.0	85.5	83.1	83.2	83.9	82.8	85.1	84.6	87.5	85.9	75.9	65.9
800	92.9	91.4	91.4	90.3	89.0	86.8	85.4	85.1	82.7	80.2	80.4	81.2	80.1	82.5	82.1	85.1	83.4	73.4	63.4
1000	89.9	88.4	88.4	87.3	85.9	83.7	82.4	82.1	79.7	77.2	77.4	78.3	77.3	79.9	79.5	82.4	80.7	70.7	60.7
1250	86.7	85.2	85.2	84.1	82.6	80.5	79.2	78.8	76.6	74.1	74.2	75.3	74.4	77.1	76.7	79.5	77.8	67.8	57.8
1600	83.2	81.7	81.8	80.7	79.1	77.1	75.8	75.4	73.2	70.7	70.8	72.1	71.3	74.2	73.7	76.5	74.7	64.7	54.7
2000	79.4	78.0	78.2	77.0	75.3	73.4	72.1	71.7	69.7	67.2	67.3	68.9	68.2	71.1	70.6	73.3	71.5	61.5	51.5
2500	75.4	74.0	74.2	73.0	71.2	69.4	68.2	67.8	65.9	63.5	63.5	65.4	64.7	67.8	67.2	69.8	67.9	57.9	47.9
3150	70.9	69.7	70.0	68.8	66.8	65.2	64.0	63.6	61.9	59.7	59.6	61.8	61.1	64.3	63.5	65.9	63.9	53.9	43.9
4000	65.8	64.6	65.1	63.8	61.7	60.3	59.1	58.8	57.4	55.3	55.3	57.6	56.9	60.2	59.4	61.5	59.4	49.4	39.4
5000	60.2	59.3	59.9	58.4	56.3	55.2	54.0	53.7	52.5	50.7	50.7	53.1	52.4	55.7	55.1	56.9	54.7	44.7	34.7
6300	54.4	53.6	54.4	52.8	50.7	49.8	48.7	48.5	47.5	45.8	45.8	48.4	47.6	51.0	50.6	52.2	49.9	39.9	29.9
8000	48.6	47.9	49.0	47.3	45.0	44.4	43.4	43.4	42.8	41.[illegible]	41.3	44.0	43.3	46.9	47.0	48.5	46.2	36.2	26.2
10000	42.6	42.0	43.4	41.7	39.1	38.8	38.0	38.2	37.8	36.6	36.6	39.3	38.8	42.5	43.2	44.6	42.5	32.5	22.5
12500	36.8	36.3	37.8	36.2	33.4	33.4	32.7	33.0	33.0	31.8	31.8	34.7	34.4	38.2	39.1	40.8	38.7	28.7	18.7
16000	30.8	30.4	32.0	30.6	27.5	27.7	27.2	27.6	27.8	26.6	26.8	29.7	29.7	33.5	35.0	36.9	34.9	24.9	14.9
20000	24.7	24.3	26.0	24.8	21.4	21.7	21.5	22.0	22.4	21.3	21.7	24.4	24.8	28.7	30.7	33.0	31.0	21.0	11.0
25000	18.3	18.0	19.6	18.6	15.3	15.6	15.6	16.2	16.9	15.9	16.6	19.0	19.9	23.9	26.5	29.2	27.0	17.0	7.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

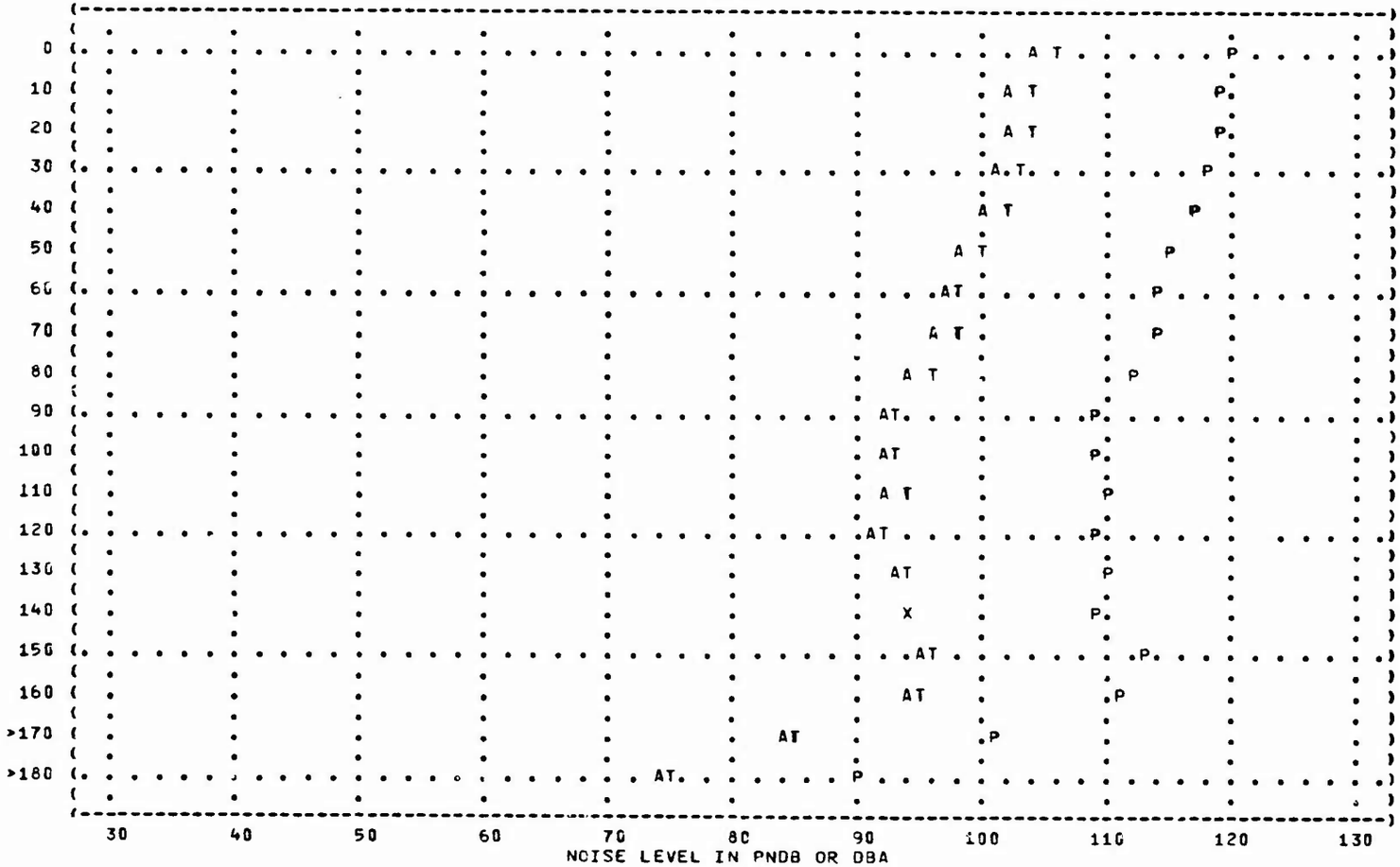
NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-031
RUN 02
AIRCRAFT CODE 079
OPERATION CODE 02019
PROFILE VERSION A
06 APR 76
PAGE J2

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 03
AIRCRAFT CODE 079
OPERATION CODE 01018
PROFILE VERSION A
06 APR 76
PAGE 03

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	74	78	76	77	77	78	79	79	81	81	84	86	90	94	100	103	101	91	81
63	77	79	79	80	80	80	81	81	81	84	85	89	93	98	105	107	102	92	82
80	79	82	83	83	83	84	85	83	84	85	87	91	95	100	107	110	104	94	84
100	81	84	86	85	85	86	87	86	87	89	91	95	99	103	110	114	107	97	87
125	82	85	86	86	86	85	86	86	88	89	91	96	99	103	107	114	109	99	89
160	85	88	88	86	85	85	86	87	90	92	94	97	102	106	107	115	112	102	92
200	85	88	86	87	85	85	86	87	87	89	93	95	100	105	109	110	109	99	89
250	85	87	88	88	87	87	90	87	87	88	90	93	96	101	107	102	106	96	86
315	84	88	89	89	85	88	88	85	85	86	88	92	96	99	102	105	100	90	80
400	85	87	88	87	84	83	84	80	81	84	85	91	94	96	98	103	96	86	76
500	85	85	86	86	83	83	83	80	82	84	83	91	92	94	97	99	92	82	72
630	85	85	87	86	83	82	83	81	82	86	85	92	92	92	94	97	89	79	69
800	84	85	86	85	82	83	82	81	83	86	86	92	91	92	92	94	87	77	67
1000	85	86	86	85	83	83	82	81	82	85	86	90	90	91	91	93	85	75	65
1250	85	87	86	85	84	84	82	81	81	84	85	89	89	89	89	90	83	73	63
1600	93	91	89	88	86	86	84	82	82	85	86	90	89	89	88	89	82	72	62
2000	98	92	89	88	85	86	83	84	84	86	86	90	88	87	88	87	82	72	62
2500	92	92	91	90	87	87	84	84	83	84	86	88	87	85	85	84	79	69	59
3150	98	99	99	98	96	94	91	92	89	88	88	90	88	86	87	86	83	73	63
4000	96	96	96	95	94	94	91	94	91	89	90	91	89	86	87	86	83	73	63
5000	90	90	90	89	88	88	86	87	85	85	85	88	85	83	83	81	77	67	57
6300	89	90	89	88	87	86	83	86	83	83	83	85	83	81	82	80	75	65	55
8000	84	85	85	84	83	83	80	84	81	82	81	84	81	79	80	79	74	64	54
10000	81	82	81	81	80	79	76	80	78	79	78	81	79	77	77	76	71	61	51
OVERALL	104	104	103	103	101	101	99	100	99	100	102	105	108	112	117	121	117	107	97

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 03
AIRCRAFT CODE 079
OPERATION CODE 01018
PROFILE VERSION A
06 APR 76
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	120.5	121.5	120.9	120.4	118.3	117.6	115.4	116.7	115.2	115.2	115.9	118.7	118.3	119.7	122.7	125.4	121.4	111.3	101.2
250	118.3	119.2	118.6	118.1	116.0	115.2	113.1	114.4	112.8	112.9	113.6	116.4	116.0	117.6	120.6	123.3	119.3	109.3	99.1
315	115.9	116.8	116.2	115.7	113.6	112.9	110.8	111.9	110.4	110.5	111.2	114.0	113.7	115.4	118.4	121.2	117.2	107.2	97.0
400	113.4	114.4	113.8	113.3	111.2	110.4	108.4	109.4	107.9	108.0	108.7	111.6	111.3	113.2	116.2	119.0	115.0	104.9	94.7
500	110.9	111.8	111.2	110.7	108.6	107.9	105.8	106.7	105.3	105.4	106.1	109.0	108.8	110.8	113.8	116.7	112.6	102.5	92.3
630	108.2	109.1	108.5	108.0	105.9	105.1	103.1	103.9	102.4	102.6	103.3	106.3	106.1	108.3	111.3	114.2	110.1	100.0	89.7
800	105.3	106.2	105.7	105.2	103.0	102.3	100.2	100.8	99.4	99.7	100.4	103.4	103.4	105.6	108.7	111.6	107.5	97.3	87.0
1000	102.2	103.1	102.6	102.1	99.9	99.1	97.2	97.5	96.2	96.6	97.2	100.3	100.5	102.8	105.9	108.8	104.7	94.5	84.1
1250	98.9	99.8	99.2	98.7	96.5	95.8	93.8	93.9	92.7	93.3	93.9	97.1	97.3	99.7	102.8	105.8	101.6	91.4	80.8
1600	95.3	96.1	95.6	95.0	92.8	92.1	90.2	90.2	89.0	89.7	90.3	93.6	94.1	96.3	99.5	102.5	98.2	87.9	77.2
2000	91.7	92.1	91.5	91.0	88.7	88.1	86.2	86.1	85.0	85.7	86.4	90.0	90.8	92.8	95.8	98.9	94.5	84.1	73.2
2500	87.8	87.6	87.1	86.5	84.2	83.6	81.7	81.6	80.5	81.4	82.2	86.1	86.9	88.8	91.7	94.8	90.3	79.7	68.7
3150	83.4	82.6	82.0	81.5	79.1	78.5	76.7	76.5	75.5	76.9	77.8	81.8	82.6	84.4	87.2	90.3	85.6	74.7	63.6
4000	78.6	76.9	76.3	75.7	73.3	72.7	71.0	70.7	70.0	72.1	72.9	77.4	78.1	79.5	82.4	85.2	79.9	69.0	57.8
5000	73.2	70.9	70.0	69.3	66.9	66.8	65.5	64.4	64.5	67.0	67.8	72.6	73.2	74.6	77.5	80.0	74.6	63.5	51.7
6300	67.2	65.3	64.2	63.3	60.9	61.0	59.8	58.3	59.0	61.8	62.2	67.5	68.1	69.5	72.4	75.0	69.1	57.9	45.5
8000	60.8	59.5	58.8	57.9	55.3	55.4	54.4	53.0	54.1	57.0	57.5	62.9	63.9	65.7	68.7	71.4	65.7	54.1	40.9
10000	53.6	53.2	53.6	52.7	49.4	49.4	49.2	47.2	48.7	51.8	52.3	58.3	59.5	61.5	64.8	67.6	62.1	50.1	36.1
12500	46.1	46.8	47.6	46.9	43.1	43.2	43.0	40.7	42.4	46.2	46.4	53.0	54.6	57.0	60.5	63.5	58.4	45.4	30.1
16000	39.2	40.2	41.1	40.4	36.3	36.3	36.4	33.4	35.6	39.3	39.8	47.2	49.5	52.1	55.9	59.4	54.3	40.7	22.1
20000	33.5	32.4	33.5	33.0	28.3	28.3	28.6	24.0	26.9	32.0	32.1	40.4	43.0	46.0	50.4	55.2	49.9	35.0	11.6
25000	19.5	21.5	24.2	23.1	16.1	16.9	17.1	7.8	12.9	18.8	21.5	32.7	36.0	39.5	44.4	50.3	44.8	28.9	1.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 03
AIRCRAFT CODE 079
OPERATION CODE 01018
PROFILE VERSION A
06 APR 76
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	122.5	123.2	122.6	122.3	119.9	118.8	116.7	118.4	116.8	116.3	117.0	118.7	118.3	119.7	123.2	126.4	121.4	111.3	101.2
250	120.2	120.9	120.3	120.0	117.6	116.5	114.4	116.0	114.5	114.0	114.7	116.4	116.0	117.6	121.1	124.3	119.3	109.3	99.1
315	117.8	118.6	118.0	117.7	115.3	114.2	112.0	113.6	112.1	111.6	112.3	114.0	113.7	115.4	118.9	122.2	117.2	107.2	97.0
400	115.4	116.1	115.5	115.2	112.8	111.7	109.6	111.1	109.6	109.1	109.8	111.6	111.3	113.2	116.7	120.0	115.0	104.9	94.7
500	112.8	113.6	113.0	112.7	110.3	109.2	107.0	108.4	106.9	106.5	107.2	109.1	108.8	110.8	114.3	117.7	112.6	102.5	92.3
630	110.1	110.8	110.3	110.0	107.5	106.4	104.3	105.5	104.1	103.7	104.4	106.3	106.1	108.3	111.8	115.2	110.1	100.0	89.7
800	107.2	108.0	107.4	107.1	104.6	103.5	101.5	102.5	101.1	100.8	101.5	103.4	103.4	105.6	109.2	112.6	107.5	97.3	87.0
1000	104.1	104.9	104.3	104.0	101.5	100.4	98.4	99.1	97.8	97.7	98.3	100.3	100.5	102.8	106.4	109.8	104.7	94.5	84.1
1250	100.8	101.5	100.9	100.6	98.1	97.1	95.0	95.6	94.3	94.4	95.0	97.1	97.3	99.7	103.3	106.8	101.6	91.4	80.8
1600	97.2	97.9	97.3	97.0	94.5	93.4	91.4	91.9	90.7	90.4	91.4	93.6	94.1	96.3	100.0	103.5	98.2	87.9	77.2
2000	93.6	93.8	93.3	92.9	90.4	89.3	87.4	87.8	86.7	86.8	87.5	90.0	90.8	92.8	96.3	99.9	94.5	84.1	73.2
2500	89.7	89.4	88.8	88.4	85.9	84.8	82.9	83.3	82.2	82.5	83.3	86.1	86.9	88.8	92.2	95.8	90.3	79.7	68.7
3150	85.3	84.3	83.8	83.4	80.8	79.8	77.9	78.1	77.2	77.8	78.9	81.8	82.6	84.4	87.7	91.3	85.6	74.7	63.6
4000	80.1	78.3	77.7	77.3	74.7	73.8	72.0	72.0	71.3	72.3	73.8	77.4	78.1	79.5	82.8	86.0	79.9	69.0	57.8
5000	74.3	72.0	71.0	70.5	67.9	67.6	66.2	65.4	65.5	67.7	68.4	72.6	73.2	74.6	77.8	80.6	74.6	63.5	51.7
6300	68.0	66.0	64.9	64.1	61.6	61.5	60.3	58.9	59.7	62.2	62.6	67.5	68.1	69.5	72.6	75.4	69.1	57.9	45.5
8000	61.2	59.8	59.1	58.2	55.6	55.6	54.7	53.3	54.4	57.2	57.7	62.9	63.9	65.7	68.8	71.6	65.7	54.1	40.9
10000	53.6	53.2	53.6	52.7	49.4	49.4	49.2	47.2	48.7	51.8	52.3	58.3	59.5	61.5	64.8	67.6	62.1	50.1	36.1
12500	46.1	46.8	47.6	46.9	43.1	43.2	43.0	40.7	42.4	46.2	46.4	53.0	54.6	57.0	60.5	63.5	58.4	45.4	30.1
16000	39.2	40.2	41.1	40.4	36.3	36.3	36.4	33.4	35.6	39.3	39.8	47.2	49.5	52.1	55.9	59.4	54.3	40.7	22.1
20000	30.5	32.4	33.5	33.0	28.3	28.3	28.6	24.0	26.9	32.0	32.1	40.4	43.0	46.0	50.4	55.2	49.9	35.0	11.6
25000	19.5	21.5	24.2	23.1	16.1	16.9	17.1	7.8	12.9	18.8	21.5	32.7	36.0	39.5	44.4	50.3	44.8	28.9	1.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 03
AIRCRAFT CODE 079
OPERATION CODE 01018
PROFILE VERSION A
06 APR 76
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	106.7	106.4	105.7	105.1	103.2	102.6	100.1	101.2	99.3	99.8	100.3	103.6	103.5	104.9	107.5	110.1	106.5	96.5	86.5
250	104.4	104.1	103.4	102.8	100.9	100.3	97.8	98.9	97.0	97.5	98.0	101.4	101.4	102.8	105.5	108.0	104.5	94.5	84.5
315	102.1	101.7	101.0	100.5	98.5	97.9	95.5	96.4	94.6	95.2	95.7	99.2	99.2	100.7	103.4	106.0	102.4	92.4	82.4
400	99.7	99.3	98.6	98.0	96.0	95.4	93.0	93.9	92.2	92.8	93.4	96.9	97.0	98.5	101.3	103.9	100.3	90.3	80.3
500	97.2	96.8	96.0	95.4	93.4	92.8	90.5	91.3	89.6	90.4	90.9	94.6	94.7	96.3	99.0	101.6	98.0	88.0	78.0
630	94.6	94.1	93.3	92.7	90.7	90.1	87.8	88.5	87.0	87.8	88.4	92.1	92.3	94.0	96.7	99.3	95.5	85.5	75.5
800	91.9	91.3	90.5	89.9	87.8	87.3	85.0	85.5	84.2	85.2	85.8	89.6	89.9	91.5	94.2	96.8	93.0	83.0	73.0
1000	89.0	88.3	87.6	86.9	84.8	84.2	82.1	82.4	81.2	82.5	83.1	87.1	87.4	89.0	91.6	94.3	90.3	80.3	70.3
1250	86.0	85.2	84.4	83.7	81.5	81.0	79.0	79.1	78.1	79.6	80.2	84.4	84.8	86.3	88.9	91.5	87.3	77.3	67.3
1600	82.8	81.9	81.0	80.3	78.1	77.6	75.8	75.6	74.9	76.7	77.2	81.6	82.0	83.5	85.9	88.7	84.2	74.2	64.2
2000	79.3	78.3	77.5	76.7	74.4	74.0	72.4	71.9	71.5	73.6	74.1	78.7	79.2	80.6	82.9	85.7	80.8	70.8	60.8
2500	75.6	74.5	73.7	72.9	70.5	70.2	68.8	68.0	68.0	70.4	70.8	75.7	76.0	77.3	79.5	82.2	77.0	67.0	57.0
3150	71.6	70.4	69.8	68.9	66.5	66.3	65.0	64.0	64.3	67.0	67.3	72.4	72.7	73.8	75.7	78.4	72.8	62.8	52.8
4000	67.3	66.1	65.6	64.6	62.2	62.1	61.0	59.8	60.5	63.3	63.6	68.8	69.0	69.9	71.7	74.2	68.3	58.3	48.3
5000	62.5	61.5	61.1	60.1	57.7	57.7	56.7	55.4	56.2	59.2	59.4	64.7	64.8	65.7	67.3	69.8	63.7	53.7	43.7
6300	57.3	56.6	56.4	55.4	53.0	53.0	52.1	50.7	51.8	54.8	55.0	60.3	60.4	61.3	62.9	65.2	59.1	49.1	39.1
8000	52.0	51.8	52.0	51.0	48.5	48.5	47.8	46.3	47.5	50.6	50.7	56.3	56.5	57.5	59.3	61.8	55.8	45.8	35.8
10000	46.5	46.8	47.4	46.4	43.8	43.8	43.3	41.7	43.0	46.1	46.1	51.9	52.3	53.4	55.5	58.2	52.4	42.4	32.4
12500	40.9	41.6	42.5	41.6	38.8	38.8	38.5	36.8	38.2	41.2	41.1	47.0	47.7	49.1	51.5	54.3	48.9	38.9	28.9
16000	35.2	36.0	37.2	36.3	33.4	33.4	33.3	31.5	32.9	35.8	35.8	41.8	42.8	44.5	47.2	50.3	45.3	35.3	25.3
20000	29.3	30.2	31.5	30.7	27.7	27.8	27.9	25.9	27.3	30.1	30.3	36.1	37.6	39.8	42.9	46.1	41.5	31.5	21.5
25000	23.0	24.1	25.3	24.7	21.7	21.8	22.1	20.2	21.5	24.0	24.6	30.1	32.1	34.9	38.4	41.9	37.7	27.7	17.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 03
AIRCRAFT CODE 079
OPERATION CODE 01018
PROFILE VERSION A
06 APR 76
PAGE G3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	108.6	108.2	107.4	107.0	104.9	103.9	101.4	102.9	101.0	100.9	101.4	103.6	103.5	104.9	108.0	111.1	106.5	96.5	86.5
250	106.3	105.9	105.1	104.7	102.6	101.6	99.1	100.5	98.7	98.6	99.1	101.4	101.4	102.8	106.0	109.0	104.5	94.5	84.5
315	104.0	103.5	102.8	102.4	100.2	99.2	96.7	98.1	96.3	96.3	96.8	99.2	99.2	100.7	103.9	107.0	102.4	92.4	82.4
400	101.6	101.1	100.3	99.9	97.7	96.7	94.3	95.6	93.8	93.9	94.5	96.9	97.0	98.5	101.8	104.9	100.3	90.3	80.3
500	99.1	98.5	97.8	97.4	95.1	94.1	91.7	92.9	91.3	91.5	92.1	94.6	94.7	96.3	99.5	102.6	98.0	88.0	78.0
630	96.5	95.9	95.1	94.7	92.4	91.4	89.1	90.1	88.6	88.9	89.5	92.1	92.3	94.0	97.2	100.3	95.5	85.5	75.5
800	93.8	93.1	92.3	91.8	89.5	88.5	86.3	87.2	85.8	86.3	86.9	89.6	89.9	91.5	94.7	97.8	93.0	83.0	73.0
1000	90.9	90.1	89.3	88.8	86.5	85.5	83.3	84.1	82.9	83.6	84.2	87.1	87.4	89.0	92.1	95.3	90.3	80.3	70.3
1250	87.9	87.0	86.1	85.6	83.2	82.3	80.2	80.8	79.8	80.7	81.3	84.4	84.8	86.3	89.4	92.5	87.3	77.3	67.3
1600	84.7	83.6	82.8	82.3	79.7	78.9	77.0	77.3	76.5	77.8	78.3	81.6	82.0	83.5	86.4	89.7	84.2	74.2	64.2
2000	81.2	80.0	79.2	78.7	76.1	75.3	73.6	73.6	73.2	74.7	75.2	78.7	79.2	80.6	83.4	86.7	80.8	70.8	60.8
2500	77.6	76.2	75.5	74.8	72.2	71.5	70.0	69.7	69.7	71.5	71.9	75.7	76.0	77.3	80.0	83.2	77.0	67.0	57.0
3150	73.6	72.2	71.5	70.8	68.1	67.6	66.2	65.7	66.0	68.1	68.4	72.4	72.7	73.8	76.2	79.4	72.8	62.8	52.8
4000	68.9	67.5	67.0	66.2	63.5	63.2	62.0	61.2	61.8	64.2	64.5	68.8	69.0	69.9	72.1	75.0	68.3	58.3	48.3
5000	63.7	62.6	62.2	61.2	58.7	58.5	57.4	56.4	57.2	59.9	60.1	64.7	64.8	65.7	67.6	70.4	63.7	53.7	43.7
6300	58.1	57.3	57.1	56.1	53.6	53.5	52.6	51.4	52.4	55.2	55.4	60.3	60.4	61.3	63.1	65.6	59.1	49.1	39.1
8000	52.4	52.2	52.4	51.4	48.8	48.8	48.0	46.7	47.9	50.8	50.9	56.3	56.5	57.5	59.4	62.0	55.8	45.8	35.8
10000	46.5	46.8	47.4	46.4	43.8	43.8	43.3	41.7	43.0	46.1	46.1	51.9	52.3	53.4	55.5	58.2	52.4	42.4	32.4
12500	40.9	41.6	42.5	41.6	38.8	38.8	38.5	36.8	38.2	41.2	41.1	47.0	47.7	49.1	51.5	54.3	48.9	38.9	28.9
16000	35.2	36.0	37.2	36.3	33.4	33.4	33.3	31.5	32.9	35.8	35.8	41.8	42.8	44.5	47.2	50.3	45.3	35.3	25.3
20000	29.3	30.2	31.5	30.7	27.7	27.8	27.9	25.9	27.3	30.1	30.3	36.1	37.6	39.8	42.9	46.1	41.5	31.5	21.5
25000	23.0	24.1	25.3	24.7	21.7	21.8	22.1	20.2	21.5	24.0	24.6	30.1	32.1	34.9	38.4	41.9	37.7	27.7	17.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

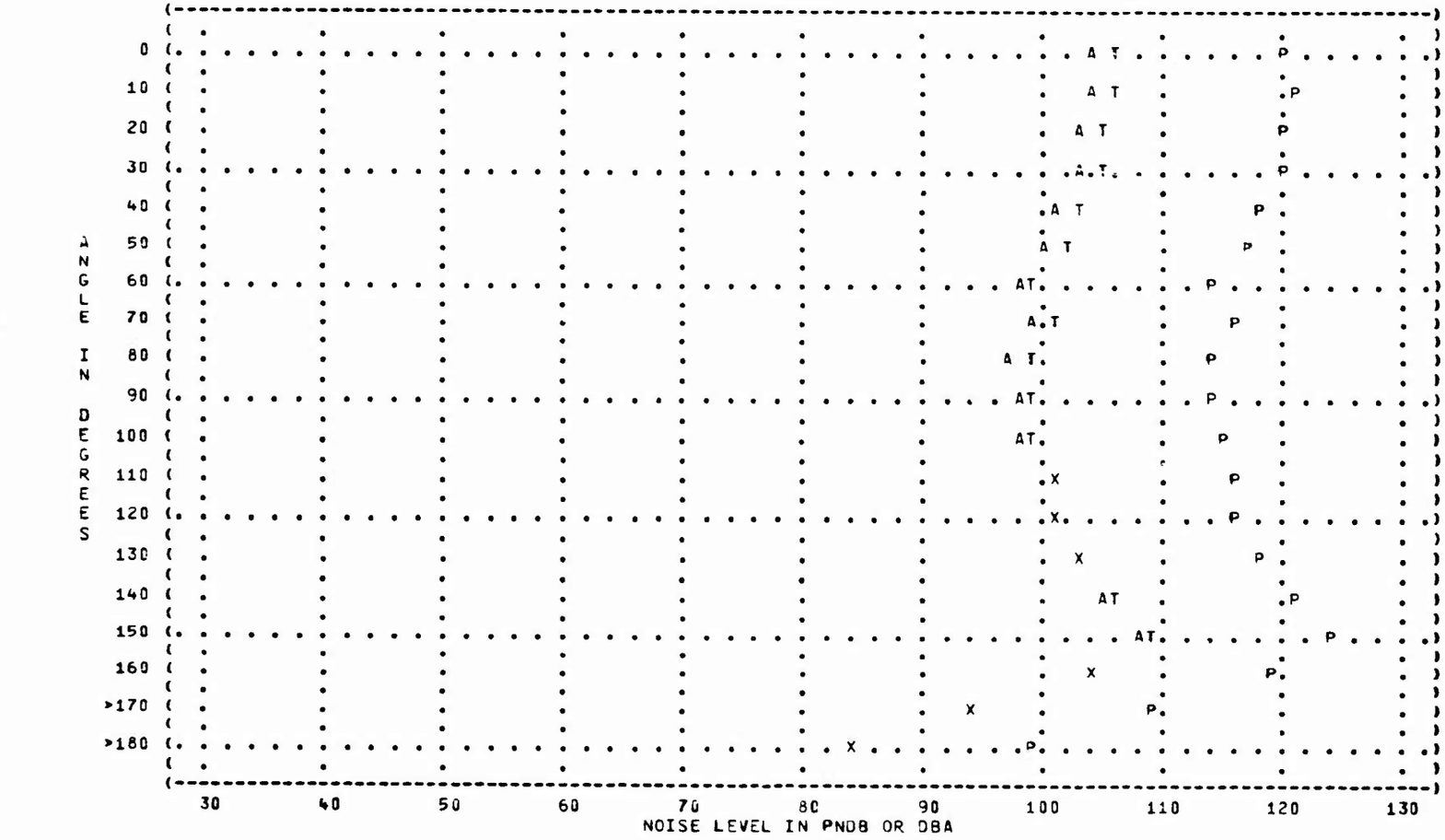
NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 03
AIRCRAFT CODE 079
OPERATION CODE 01018
PROFILE VERSION A
06 APR 76
PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 04
AIRCRAFT CODE 079
OPERATION CODE 01004
PROFILE VERSION A
06 APR 76
PAGE C4

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
MILITARY POWER, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	78	78	79	81	81	81	85	83	88	89	91	92	99	104	110	112	108	98	88
63	80	81	84	84	84	84	86	87	89	90	92	96	101	107	114	115	110	100	90
80	84	84	87	86	87	88	89	90	91	92	94	98	102	110	116	119	113	103	93
100	86	88	89	89	88	90	90	91	94	96	98	101	106	113	120	122	116	106	96
125	87	90	91	91	89	90	91	92	95	97	98	101	108	113	116	122	118	108	98
160	92	93	93	92	91	91	92	94	96	98	100	103	111	117	117	124	119	109	99
200	91	92	91	91	91	91	92	92	93	97	100	103	110	119	119	121	118	108	98
250	87	90	93	93	91	91	92	93	93	95	100	102	108	114	120	118	120	110	100
315	88	92	95	93	90	92	92	91	93	94	96	100	106	113	118	120	119	109	99
400	90	91	94	94	91	91	90	91	92	94	95	100	105	110	116	120	117	107	97
500	98	97	102	97	92	92	91	92	95	96	95	101	105	109	117	118	117	107	97
630	90	95	96	96	94	92	91	92	94	97	96	101	105	108	115	117	114	104	94
800	87	93	96	95	95	93	92	92	95	97	98	101	104	107	113	115	112	102	92
1000	86	91	94	94	94	94	94	94	94	97	97	101	104	107	112	114	110	100	90
1250	85	88	91	91	93	93	93	94	95	96	98	101	103	105	111	112	107	97	87
1600	92	89	90	91	92	93	93	94	95	97	98	101	104	105	110	112	106	96	86
2000	97	92	89	89	88	90	90	91	95	97	99	102	103	105	109	111	106	96	86
2500	88	85	86	86	87	89	89	90	94	96	98	100	101	103	107	109	104	94	84
3150	86	84	86	86	87	88	89	91	95	96	99	101	102	103	107	109	104	94	84
4000	91	84	85	86	86	87	88	89	94	96	98	99	102	102	106	108	103	93	83
5000	85	81	82	84	84	85	86	87	92	93	95	96	98	99	103	106	99	89	79
6300	84	78	80	81	82	83	84	84	90	91	94	95	97	99	103	106	99	89	79
8000	80	75	76	77	78	79	80	81	88	89	91	93	95	97	102	106	97	87	77
10000	76	72	73	74	75	76	78	77	85	86	89	90	93	95	102	105	96	86	76
OVERALL	104	104	107	105	104	104	104	105	107	109	111	114	119	124	128	131	128	118	108

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 04
AIRCRAFT CODE 079
OPERATION CODE 01004
PROFILE VERSION A
06 APR 76
PAGE 04

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
MILITARY POWER, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	118.3	115.9	117.9	116.0	115.9	116.8	117.3	118.2	121.7	123.3	125.5	127.9	130.6	134.1	138.1	140.5	136.9	126.9	116.9
250	116.1	113.7	115.8	113.9	113.7	114.5	115.0	116.0	119.4	121.1	123.2	125.7	128.4	131.9	135.9	138.4	134.8	124.8	114.7
315	113.8	111.4	113.6	111.7	111.5	112.3	112.7	113.7	117.1	118.8	120.9	123.4	126.1	129.8	133.7	136.2	132.6	122.6	112.6
400	111.5	109.2	111.4	109.4	109.2	110.0	110.3	111.3	114.7	116.4	118.5	121.0	123.7	127.5	131.5	133.9	130.4	120.4	110.4
500	109.1	106.8	109.1	107.1	106.8	107.6	107.9	108.8	112.2	113.9	116.0	118.5	121.3	125.1	129.2	131.6	128.2	118.1	108.1
630	106.6	104.3	106.7	104.7	104.3	105.1	105.3	106.2	109.5	111.2	113.3	115.9	118.7	122.5	126.7	129.2	125.8	115.8	105.7
800	103.9	101.7	104.3	102.2	101.8	102.6	102.7	103.5	106.7	108.4	110.5	113.1	115.9	119.9	124.2	126.7	123.4	113.3	103.2
1000	101.2	99.0	101.8	99.6	99.0	99.8	99.9	100.7	103.8	105.5	107.6	110.2	113.0	117.0	121.6	124.2	120.8	110.8	100.6
1250	98.2	96.1	99.1	96.8	96.1	96.9	97.0	97.7	100.6	102.5	104.3	107.2	110.1	114.0	118.6	121.4	117.9	107.9	97.7
1600	95.0	93.0	96.3	93.9	93.0	93.7	93.8	94.6	97.3	99.2	100.9	104.0	106.8	110.7	115.7	118.5	115.1	105.0	94.8
2000	91.6	90.0	93.4	90.9	89.7	90.4	90.4	91.2	93.7	95.7	97.4	100.5	103.4	107.4	112.6	115.5	112.0	101.9	91.7
2500	87.8	86.7	90.2	87.5	86.0	86.7	86.7	87.5	89.9	91.9	93.5	96.7	99.6	103.5	109.2	111.7	108.6	98.4	88.2
3150	83.6	82.8	86.4	83.7	82.3	82.7	82.7	83.4	85.6	87.6	89.2	92.4	95.4	99.3	105.2	107.4	104.6	94.4	84.2
4000	78.9	78.5	82.2	79.4	78.2	78.3	78.2	79.0	80.9	82.9	84.4	87.7	91.0	94.7	100.8	102.8	100.2	90.0	79.7
5000	73.8	73.8	77.6	74.7	73.8	73.4	73.3	74.1	75.9	78.0	79.3	82.6	86.2	89.9	96.0	98.0	95.5	85.3	75.0
6300	68.8	68.9	72.8	69.7	68.9	68.3	68.1	68.7	70.6	72.8	74.0	77.6	81.1	84.9	91.1	93.1	90.6	80.4	70.0
8000	64.7	64.9	68.9	65.7	64.5	63.8	63.4	63.8	66.0	68.3	69.4	73.1	77.0	81.0	87.3	89.3	86.9	76.6	66.2
10000	60.2	60.6	64.8	61.4	59.6	58.8	58.3	58.9	61.1	63.4	64.5	68.4	72.5	76.9	83.2	85.3	83.0	72.6	62.0
12500	55.3	55.8	60.2	56.6	54.2	53.3	52.9	53.6	56.1	58.3	59.0	63.4	67.8	72.5	78.9	81.0	78.8	68.3	57.5
16000	50.0	50.5	55.1	51.4	48.4	47.6	46.9	47.7	50.5	52.7	53.1	58.0	62.8	67.7	74.2	76.3	74.2	63.5	52.5
20000	43.9	44.3	49.3	45.3	41.2	40.7	39.9	41.0	43.8	46.4	46.6	52.2	57.3	62.5	69.1	71.3	69.1	58.2	46.9
25000	36.0	36.4	42.5	37.5	32.9	32.4	31.5	33.1	36.4	38.8	39.2	45.2	51.0	56.8	63.4	65.7	63.4	52.2	39.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
MILITARY POWER, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 04
AIRCRAFT CODE 079
OPERATION CODE 01004
PROFILE VERSION A
06 APR 76
PAGE E4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	120.8	117.5	120.3	116.0	115.9	116.8	117.3	118.2	121.7	123.3	125.5	127.9	130.6	134.1	138.6	140.5	136.9	126.9	116.9
250	118.6	115.3	118.2	113.9	113.7	114.5	115.0	116.0	119.4	121.1	123.2	125.7	128.4	131.9	136.5	138.4	134.8	124.8	114.7
315	116.4	113.1	116.0	111.7	111.5	112.3	112.7	113.7	117.1	118.8	120.9	123.4	126.1	129.8	134.3	136.2	132.6	122.6	112.6
400	114.0	110.8	113.8	109.4	109.2	110.0	110.3	111.3	114.7	116.4	118.5	121.0	123.7	127.5	132.1	133.9	130.4	120.4	110.4
500	111.6	108.4	111.5	107.1	106.8	107.6	107.9	108.8	112.2	113.9	116.0	118.5	121.3	125.1	129.8	131.6	128.2	118.1	108.1
630	109.1	105.9	109.2	104.7	104.3	105.1	105.3	106.2	109.5	111.2	113.3	115.9	118.7	122.5	127.2	129.2	125.8	115.8	105.7
800	106.5	103.4	106.7	102.2	101.8	102.6	102.7	103.5	106.7	108.4	110.5	113.1	115.9	119.9	124.8	126.7	123.4	113.3	103.2
1000	103.7	100.6	104.2	99.6	99.0	99.8	99.9	100.7	103.8	105.5	107.6	110.2	113.0	117.0	122.1	124.2	120.8	110.8	100.6
1250	100.7	97.7	101.5	96.8	96.1	96.9	97.0	97.7	100.6	102.5	104.3	107.2	110.1	114.0	119.2	121.4	117.9	107.9	97.7
1600	97.5	94.6	98.7	93.9	93.0	93.7	93.8	94.6	97.3	99.2	100.9	104.0	106.8	110.7	116.3	118.5	115.1	105.0	94.8
2000	94.1	91.6	95.8	90.9	89.7	90.4	90.4	91.2	93.7	95.7	97.4	100.5	103.4	107.4	113.2	115.5	112.0	101.9	91.7
2500	90.4	88.3	92.6	87.5	86.0	86.7	86.7	87.5	89.9	91.9	93.5	96.7	99.6	103.5	109.7	111.7	108.6	98.4	88.2
3150	86.2	84.4	88.8	83.7	82.3	82.7	82.7	83.4	85.6	87.6	89.2	92.4	95.4	99.3	105.8	107.4	104.6	94.4	84.2
4000	81.0	79.8	84.1	79.4	78.2	78.3	78.2	79.0	80.9	82.9	84.4	87.7	91.0	94.7	101.2	102.8	100.2	90.0	79.7
5000	75.4	74.8	79.0	74.7	73.8	73.4	73.3	74.1	75.9	78.0	79.3	82.6	86.2	89.9	96.3	98.0	95.5	85.3	75.0
6300	69.8	69.5	73.7	69.7	68.9	68.3	68.1	68.7	70.6	72.8	74.0	77.6	81.1	84.9	91.3	93.1	90.6	80.4	70.0
8000	65.2	65.2	69.4	65.7	64.5	63.8	63.4	63.8	66.0	68.3	69.4	73.1	77.0	81.0	87.4	89.3	86.9	76.6	66.2
10000	60.2	60.6	64.8	61.4	59.6	58.8	58.3	58.9	61.1	63.4	64.5	68.4	72.5	76.9	83.2	85.3	83.0	72.6	62.0
12500	55.3	55.8	60.2	56.6	54.2	53.3	52.9	53.6	56.1	58.3	59.0	63.4	67.8	72.5	78.9	81.0	78.8	68.3	57.5
16000	50.0	50.5	55.1	51.4	48.4	47.6	46.9	47.7	50.5	52.7	53.1	58.0	62.8	67.7	74.2	76.3	74.2	63.5	52.5
20000	43.9	44.3	49.3	45.3	41.2	40.7	39.9	41.0	43.8	46.4	46.6	52.2	57.3	62.5	69.1	71.3	69.1	58.2	46.9
25000	36.0	36.4	42.5	37.5	32.9	32.4	31.5	33.1	36.4	38.8	39.2	45.2	51.0	56.8	63.4	65.7	63.4	52.2	39.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 04
AIRCRAFT CODE 079
OPERATION CODE 01004
PROFILE VERSION A
06 APR 76
PAGE F4

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
MILITARY POWER, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	104.5	103.3	105.8	104.6	104.1	104.2	104.2	104.8	107.6	109.5	111.1	113.9	116.5	119.8	124.8	126.9	123.9	113.9	103.9
250	102.3	101.2	103.7	102.5	101.9	102.0	102.0	102.7	105.4	107.3	108.9	111.7	114.4	117.7	122.7	124.8	121.8	111.8	101.8
315	100.1	99.1	101.6	100.3	99.8	99.9	99.8	100.5	103.2	105.0	106.6	109.4	112.2	115.5	120.5	122.7	119.7	109.7	99.7
400	97.8	96.8	99.5	98.2	97.6	97.7	97.6	98.3	100.9	102.8	104.3	107.2	110.0	113.4	118.4	120.5	117.6	107.6	97.6
500	95.5	94.7	97.4	96.0	95.4	95.4	95.3	96.0	98.5	100.4	101.9	104.8	107.7	111.1	116.2	118.3	115.4	105.4	95.4
630	93.2	92.5	95.2	93.8	93.1	93.1	93.0	93.6	96.1	98.0	99.4	102.5	105.3	108.7	113.9	116.0	113.2	103.2	93.2
800	90.7	90.2	93.0	91.5	90.8	90.7	90.6	91.2	93.6	95.5	96.9	100.0	102.9	106.3	111.6	113.7	110.9	100.9	90.9
1000	88.2	87.8	90.7	89.1	88.4	88.3	88.1	88.7	91.0	93.0	94.3	97.4	100.4	103.9	109.2	111.4	108.5	98.5	88.5
1250	85.6	85.4	88.3	86.7	85.9	85.7	85.5	86.1	88.3	90.3	91.5	94.8	97.8	101.2	106.6	108.9	106.0	96.0	86.0
1600	82.9	82.9	85.9	84.2	83.3	83.1	82.8	83.4	85.5	87.5	88.7	92.0	95.0	98.4	104.0	106.3	103.5	93.5	83.5
2000	80.1	80.3	83.4	81.6	80.7	80.3	80.0	80.6	82.6	84.7	85.7	89.1	92.2	95.6	101.3	103.6	100.8	90.8	80.8
2500	77.0	77.4	80.7	78.8	77.8	77.3	77.0	77.6	79.5	81.6	82.5	86.1	89.2	92.4	98.3	100.5	97.8	87.8	77.8
3150	73.5	74.3	77.5	75.7	74.7	74.1	73.8	74.3	76.1	78.3	79.1	82.7	85.9	89.0	95.0	97.2	94.4	84.4	74.4
4000	69.6	70.7	73.9	72.2	71.3	70.6	70.2	70.8	72.5	74.7	75.4	79.1	82.2	85.2	91.3	93.5	90.6	80.6	70.6
5000	65.3	66.7	69.9	68.2	67.4	66.6	66.3	66.8	68.4	70.6	71.3	75.0	78.1	81.1	87.2	89.3	86.4	76.4	66.4
6300	60.6	62.4	65.6	63.9	63.1	62.3	61.9	62.4	64.0	66.2	66.8	70.6	73.8	76.6	82.8	85.0	82.0	72.0	62.0
8000	56.6	58.5	61.9	60.0	59.0	58.1	57.6	58.1	59.7	62.0	62.5	66.4	69.7	72.7	79.0	81.1	78.3	68.3	58.3
10000	52.5	54.4	57.9	55.8	54.4	53.4	52.9	53.4	55.1	57.4	57.7	61.8	65.2	68.5	74.9	77.0	74.4	64.4	54.4
12500	48.1	49.8	53.5	51.1	49.4	48.3	47.8	48.3	50.1	52.4	52.6	56.9	60.5	64.0	70.4	72.6	70.2	60.2	50.2
16000	43.5	44.8	48.7	45.9	43.9	42.8	42.2	42.7	44.7	47.0	47.1	51.5	55.3	59.2	65.5	67.7	65.5	55.5	45.5
20000	38.2	39.2	43.3	40.2	37.8	36.7	36.1	36.7	38.8	41.0	41.1	45.7	49.7	54.1	60.2	62.4	60.4	50.4	40.4
25000	32.3	33.0	37.3	33.9	31.1	30.2	29.6	30.3	32.4	34.6	34.8	39.4	43.8	48.7	54.4	56.8	54.8	44.8	34.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
MILITARY POWER, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN Hg
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 04
AIRCRAFT CODE 079
OPERATION CODE 01004
PROFILE VERSION A
06 APR 76
PAGE G4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	107.0	104.9	108.3	104.6	104.1	104.2	104.2	104.8	107.6	109.5	111.1	113.9	116.5	119.8	125.3	126.9	123.9	113.9	103.9
250	104.8	102.8	106.2	102.5	101.9	102.0	102.0	102.7	105.4	107.3	108.9	111.7	114.4	117.7	123.2	124.8	121.8	111.8	101.8
315	102.6	100.7	104.1	100.3	99.8	99.9	99.8	100.5	103.2	105.0	106.6	109.4	112.2	115.5	121.1	122.7	119.7	109.7	99.7
400	100.4	98.5	102.0	98.2	97.6	97.7	97.6	98.3	100.9	102.8	104.3	107.2	110.0	113.4	118.9	120.5	117.6	107.6	97.6
500	98.1	96.3	99.8	96.0	95.4	95.4	95.3	96.0	98.5	100.4	101.9	104.8	107.7	111.1	116.7	118.3	115.4	105.4	95.4
630	95.7	94.1	97.6	93.8	93.1	93.1	93.0	93.6	96.1	98.0	99.4	102.5	105.3	108.7	114.5	116.0	113.2	103.2	93.2
800	93.3	91.8	95.4	91.5	90.8	90.7	90.6	91.2	93.6	95.5	96.9	100.0	102.9	106.3	112.1	113.7	110.9	100.9	90.9
1000	90.8	89.5	93.1	89.1	88.4	88.3	88.1	88.7	91.0	93.0	94.3	97.4	100.4	103.9	109.7	111.4	108.5	98.5	88.5
1250	88.2	87.0	90.7	86.7	85.9	85.7	85.5	86.1	88.3	90.3	91.5	94.8	97.8	101.2	107.2	108.9	106.0	96.0	86.0
1600	85.4	84.5	88.3	84.2	83.3	83.1	82.8	83.4	85.5	87.5	88.7	92.0	95.0	98.4	104.6	106.3	103.5	93.5	83.5
2000	82.6	81.9	85.8	81.6	80.7	80.3	80.0	80.6	82.6	84.7	85.7	89.1	92.2	95.6	101.9	103.6	100.8	90.8	80.8
2500	79.6	79.1	83.1	78.8	77.8	77.3	77.0	77.6	79.5	81.6	82.5	86.1	89.2	92.4	98.3	100.5	97.8	87.8	77.8
3150	76.0	75.9	79.9	75.7	74.7	74.1	73.8	74.3	76.1	78.3	79.1	82.7	85.9	89.0	95.6	97.2	94.4	84.4	74.4
4000	71.7	72.0	75.9	72.2	71.3	70.6	70.2	70.8	72.5	74.7	75.4	79.1	82.2	85.2	91.8	93.5	90.6	80.6	70.6
5000	66.8	67.7	71.4	68.2	67.4	66.9	66.3	66.8	68.4	70.6	71.3	75.0	78.1	81.1	87.6	89.3	86.4	76.4	66.4
6300	61.6	63.0	66.6	63.9	63.1	62.3	61.9	62.4	64.0	66.2	66.8	70.6	73.8	76.6	83.1	85.0	82.0	72.0	62.0
8000	57.1	58.8	62.4	60.0	59.0	58.1	57.6	58.1	59.7	62.0	62.5	66.4	69.7	72.7	79.1	81.1	78.3	68.3	58.3
10000	52.5	54.4	57.9	55.8	54.4	53.4	52.9	53.4	55.1	57.4	57.7	61.8	65.2	68.5	74.9	77.0	74.4	64.4	54.4
12500	48.1	49.8	53.5	51.1	49.4	48.3	47.8	48.3	50.1	52.4	52.6	56.9	60.5	64.0	70.4	72.6	70.2	60.2	50.2
16000	43.5	44.8	48.7	45.9	43.9	42.8	42.2	42.7	44.7	47.0	47.1	51.5	55.3	59.2	65.5	67.7	65.5	55.5	45.5
20000	38.2	39.2	43.3	40.2	37.8	36.7	36.1	36.7	38.8	41.0	41.1	45.7	49.7	54.1	60.2	62.4	60.4	50.4	40.4
25000	32.3	33.0	37.3	33.9	31.1	30.2	29.6	30.3	32.4	34.6	34.8	39.4	43.8	48.7	54.4	56.8	54.8	44.8	34.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

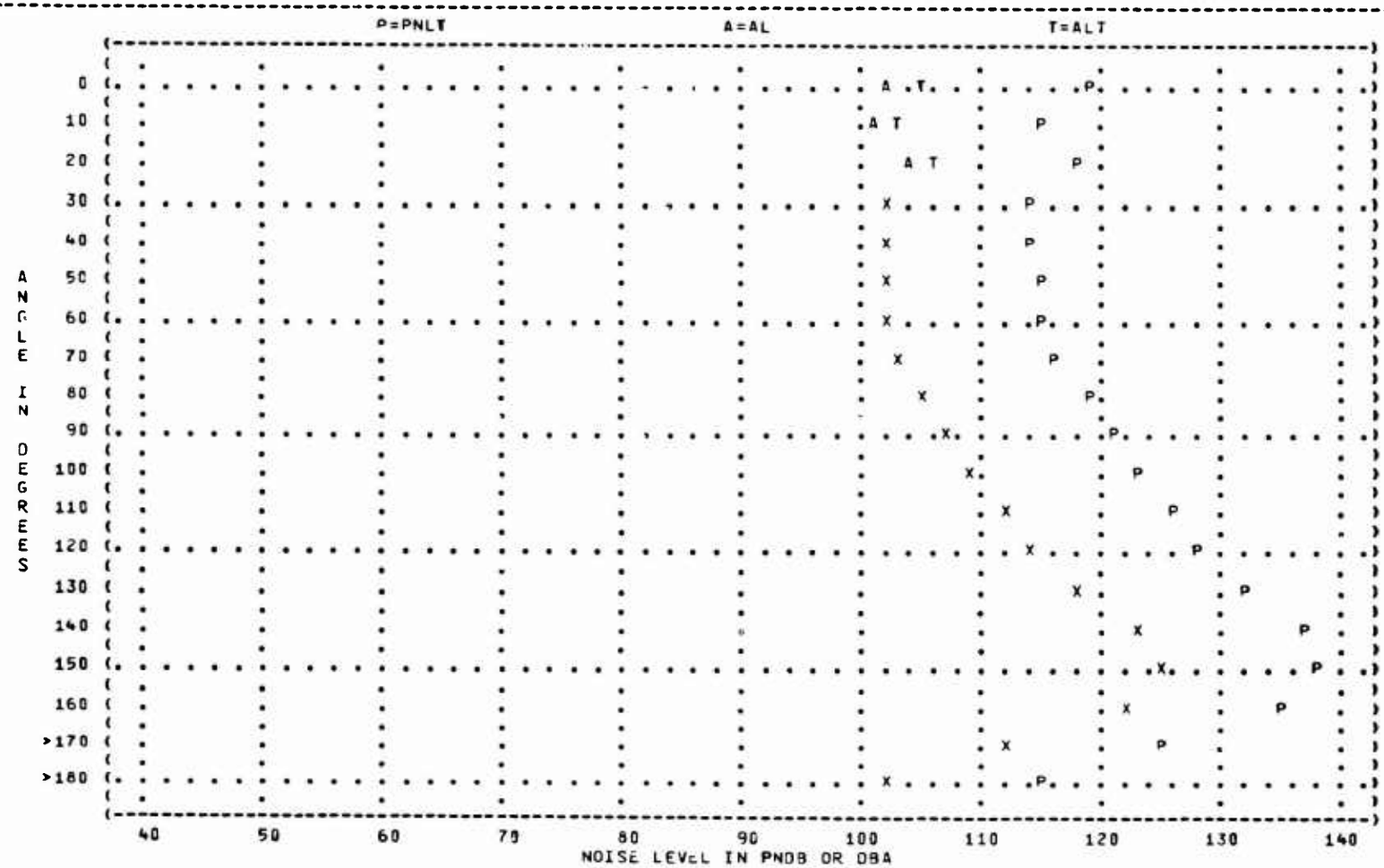
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
MILITARY POWER, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 04
AIRCRAFT CODE 079
OPERATION CODE 01004
PROFILE VERSION A
06 APR 76
PAGE 34



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 05
AIRCRAFT CODE 079
OPERATION CODE 01002
PROFILE VERSION A
06 APR 76
PAGE C5

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
AFTERBURNER POWER, ZONE 3
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	90	89	90	91	92	93	93	93	95	96	96	105	111	117	120	118	111	101	91
63	91	91	94	94	93	94	96	97	97	100	101	107	113	121	124	118	113	103	93
80	92	94	97	97	95	97	97	99	100	103	104	110	116	123	126	119	116	106	96
100	94	97	99	98	97	98	99	100	102	105	106	113	117	125	128	124	119	109	99
125	96	99	100	99	98	99	100	100	103	105	108	113	118	122	127	124	120	110	100
160	99	101	100	99	98	99	101	101	103	107	108	116	122	122	126	124	121	111	101
200	97	99	97	99	97	99	100	100	102	105	107	114	120	124	123	122	120	110	100
250	92	95	99	100	98	100	99	100	101	105	106	111	118	124	121	119	117	107	97
315	94	98	101	100	97	99	98	99	100	102	106	111	116	121	120	118	117	107	97
400	93	95	99	100	98	98	98	99	100	102	105	111	114	119	118	116	114	104	94
500	93	95	99	100	98	96	98	99	101	102	106	112	115	119	116	116	112	102	92
630	92	98	99	100	98	96	98	100	102	104	107	113	114	118	115	114	109	99	89
800	90	96	98	100	99	98	99	100	102	104	108	112	115	117	114	113	107	97	87
1000	90	94	97	99	100	99	101	102	104	105	109	113	115	117	115	113	105	95	85
1250	90	94	95	97	98	98	100	103	104	105	109	112	114	117	114	110	102	92	82
1600	93	95	96	98	99	99	102	104	105	107	110	111	113	115	113	108	100	90	80
2000	98	94	94	95	95	96	99	101	103	105	108	112	114	116	113	108	100	90	80
2500	89	91	91	94	95	96	100	102	103	105	107	111	112	114	112	105	98	88	78
3150	87	89	91	94	95	95	100	102	103	104	107	111	112	114	111	104	97	87	77
4000	92	88	90	93	94	94	99	101	101	104	106	111	112	114	111	104	96	86	76
5000	87	86	88	91	92	92	96	99	99	102	104	107	110	112	109	103	93	83	73
6300	85	82	84	88	89	89	93	96	97	100	102	107	109	112	109	102	91	81	71
8000	81	78	80	84	85	85	89	93	94	96	99	106	109	112	108	102	89	79	69
10000	78	75	77	81	82	82	87	92	91	94	98	106	110	113	108	103	87	77	67
OVERALL	107	109	110	111	110	111	112	114	115	117	120	125	129	133	135	132	126	118	108

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
AFTERBURNER POWER, ZONE 3
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 05
AIRCRAFT CODE 079
OPERATION CODE 01002
PROFILE VERSION A
06 APR 76
PAGE 05

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	120.4	119.8	121.1	123.1	123.3	123.5	126.6	128.8	129.9	131.5	134.3	138.8	141.2	144.5	142.7	139.0	134.4	124.3	114.3
250	118.2	117.7	118.9	120.9	121.1	121.3	124.3	126.6	127.6	129.3	132.1	136.5	139.0	142.2	140.4	136.9	132.3	122.2	112.2
315	116.0	115.5	116.7	118.6	118.8	119.0	122.0	124.2	125.3	127.0	129.8	134.2	136.6	139.9	138.2	134.7	130.1	120.1	110.1
400	113.7	113.2	114.4	116.3	116.4	116.6	119.6	121.8	123.0	124.6	127.4	131.8	134.2	137.4	135.8	132.5	127.9	117.9	107.9
500	111.3	110.8	112.1	113.8	113.9	114.2	117.2	119.3	120.5	122.2	124.9	129.3	131.7	134.9	133.5	130.1	125.7	115.6	105.6
630	108.8	108.3	109.7	111.3	111.4	111.6	114.5	116.7	117.8	119.6	122.3	126.7	129.1	132.3	131.0	127.6	123.3	113.3	103.2
800	106.1	105.8	107.1	108.7	108.8	109.0	111.8	113.9	115.1	116.9	119.5	123.9	126.4	129.7	128.4	124.9	121.0	110.9	100.8
1000	103.4	103.0	104.4	106.0	106.1	106.2	108.9	110.9	112.1	114.1	116.8	121.0	123.6	126.9	125.6	122.1	118.4	108.4	98.2
1250	100.4	100.1	101.5	103.1	103.2	103.3	105.8	107.7	109.0	111.0	113.9	118.0	120.6	123.9	122.6	119.2	115.5	105.4	95.2
1600	97.2	97.0	98.5	100.0	100.1	100.2	102.6	104.4	105.8	107.8	110.7	114.8	117.4	120.7	119.4	116.3	112.3	102.2	92.0
2000	93.7	93.6	95.4	96.6	96.7	96.8	99.2	101.0	102.4	104.4	107.3	111.3	114.0	117.3	116.2	113.1	109.3	99.1	88.8
2500	89.9	90.1	91.7	93.1	93.0	93.1	95.4	97.2	98.7	100.6	103.7	107.5	110.1	113.5	112.3	109.6	105.5	95.3	84.9
3150	85.6	86.4	87.8	89.2	89.0	89.0	91.3	93.1	94.6	96.5	99.6	103.3	105.9	109.4	108.1	105.6	101.2	90.9	80.5
4000	80.9	82.1	83.5	84.9	84.5	84.5	86.8	88.6	90.1	92.0	95.1	98.6	101.2	104.9	103.5	101.1	96.6	86.2	75.8
5000	75.7	77.4	78.8	80.2	79.6	79.6	81.9	83.7	85.2	87.1	90.2	93.8	96.6	100.1	98.7	96.3	91.8	81.4	71.0
6300	69.9	72.4	73.8	75.2	74.7	74.3	76.5	78.3	79.9	81.8	85.0	88.8	91.6	95.1	93.7	91.4	86.9	76.5	65.9
8000	64.3	68.2	69.7	71.0	70.2	69.5	71.3	73.0	74.6	76.5	79.8	84.6	87.4	91.1	89.8	87.6	83.3	72.8	62.2
10000	59.8	63.7	65.3	66.6	65.4	64.7	66.3	67.6	69.7	71.6	75.0	80.1	83.1	87.0	85.8	83.7	79.5	69.0	58.1
12500	54.9	58.8	60.6	61.8	60.1	59.4	60.9	62.5	64.6	66.5	69.9	75.3	78.6	82.6	81.5	79.5	75.4	64.7	53.5
16000	49.3	53.2	55.5	56.6	54.6	53.9	55.4	56.8	59.0	61.1	64.4	70.0	73.7	77.9	77.0	75.0	71.0	60.1	48.6
20000	42.8	46.8	49.7	50.9	48.6	47.9	49.4	50.8	53.0	54.8	58.6	64.5	68.5	72.8	72.1	70.1	66.1	55.0	42.6
25000	35.2	39.1	42.7	43.9	41.2	40.4	41.9	43.7	46.1	48.1	52.1	58.4	62.7	67.3	67.4	64.6	60.7	49.1	35.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
AFTERBURNER POWER, ZONE 3
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 05
AIRCRAFT CODE 079
OPERATION CODE 01002
PROFILE VERSION A
06 APR 76
PAGE E5

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	122.8	119.8	121.1	123.1	123.3	123.5	126.6	128.8	129.9	131.5	134.3	138.8	141.2	145.0	142.7	139.0	134.4	124.3	114.3
250	120.6	117.7	118.9	120.9	121.1	121.5	124.3	126.6	127.6	129.3	132.1	136.5	139.0	142.7	140.4	136.9	132.3	122.2	112.2
315	118.4	115.5	116.7	118.6	118.8	119.0	122.0	124.2	125.3	127.0	129.8	134.2	136.6	140.4	138.2	134.7	130.1	120.1	110.1
400	116.1	113.2	114.4	116.3	116.4	116.6	119.6	121.8	123.0	124.6	127.4	131.8	134.2	137.9	135.8	132.5	127.9	117.9	107.9
500	113.7	110.8	112.1	113.8	113.9	114.2	117.2	119.3	120.5	122.2	124.9	129.3	131.7	135.4	133.5	130.1	125.7	115.6	105.6
630	111.2	108.3	109.7	111.3	111.4	111.6	114.5	116.7	117.8	119.6	122.3	126.7	129.1	132.8	131.0	127.6	123.3	113.3	103.2
800	108.5	105.8	107.1	108.7	108.8	109.0	111.8	113.9	115.1	116.9	119.5	123.9	126.4	130.2	128.4	124.9	121.0	110.9	100.8
1000	105.8	103.0	104.4	106.0	106.1	106.2	108.9	110.9	112.1	114.1	116.8	121.0	123.6	127.4	125.6	122.1	118.4	108.4	98.2
1250	102.8	100.1	101.5	103.1	103.2	103.3	105.8	107.7	109.0	111.0	113.9	118.0	120.6	124.4	122.6	119.2	115.5	105.4	95.2
1600	99.6	97.0	98.5	100.0	100.1	100.2	102.6	104.4	105.8	107.8	110.7	114.8	117.4	121.2	119.4	116.3	112.3	102.2	92.0
2000	96.1	93.6	95.4	96.6	96.7	96.8	99.2	101.0	102.4	104.4	107.3	111.3	114.0	117.8	116.2	113.1	109.3	99.1	88.8
2500	92.3	90.1	91.7	93.1	93.0	93.1	95.4	97.2	98.7	100.6	103.7	107.5	110.1	114.0	112.3	109.6	105.5	95.3	84.9
3150	88.0	86.4	87.8	89.2	89.0	89.0	91.3	93.1	94.6	96.5	99.6	103.3	105.9	109.9	108.1	105.6	101.2	90.9	80.5
4000	82.8	82.1	83.5	84.9	84.5	84.5	86.8	88.6	90.1	92.0	95.1	98.6	101.2	105.3	103.5	101.1	96.6	86.2	75.8
5000	77.1	77.4	78.8	80.2	79.6	79.6	81.9	83.7	85.2	87.1	90.2	93.8	96.6	100.4	98.7	96.3	91.8	81.4	71.0
6300	70.9	72.4	73.8	75.2	74.7	74.3	76.5	78.3	79.9	81.8	85.0	88.8	91.6	95.3	93.7	91.4	86.9	76.5	65.9
8000	64.8	68.2	69.7	71.0	70.2	69.5	71.3	73.0	74.6	76.5	79.8	84.6	87.4	91.2	89.8	87.6	83.3	72.8	62.2
10000	59.8	63.7	65.3	66.8	65.4	64.7	66.3	67.6	69.7	71.6	75.0	80.1	83.1	87.0	85.8	83.7	79.5	69.0	58.1
12500	54.9	58.8	60.6	61.8	60.1	59.4	60.9	62.5	64.6	66.5	69.9	75.3	78.6	82.6	81.5	79.5	75.4	64.7	53.5
16000	49.3	53.2	55.5	56.6	54.6	53.9	55.4	56.8	59.0	61.1	64.4	70.0	73.7	77.9	77.0	75.0	71.0	60.1	48.6
20000	42.8	46.8	49.7	50.9	48.6	47.9	49.4	50.8	53.0	54.8	58.5	64.5	68.5	72.8	72.1	70.1	66.1	55.0	42.6
25000	35.2	39.1	42.7	43.9	41.2	40.4	41.9	43.7	46.1	48.1	52.1	58.4	62.7	67.3	67.4	64.6	60.7	49.1	35.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 05
AIRCRAFT CODE 079
OPERATION CODE 01002
PROFILE VERSION A
06 APR 76
PAGE F5

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
AFTERBURNER POWER, ZONE 3
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	105.6	106.9	108.5	110.1	110.2	110.0	112.7	114.8	116.0	117.8	120.9	124.8	126.9	129.9	127.9	124.8	120.6	110.6	100.6
250	103.5	104.7	106.4	108.0	108.0	107.8	110.5	112.6	113.9	115.6	118.7	122.6	124.7	127.7	125.7	122.7	118.5	108.5	98.5
315	101.3	102.6	104.3	105.9	105.9	105.6	108.3	110.3	111.6	113.4	116.5	120.3	122.5	125.5	123.6	120.6	116.5	106.5	96.5
400	99.0	100.4	102.1	103.7	103.7	103.4	106.0	108.0	109.4	111.1	114.2	118.0	120.2	123.3	121.3	118.4	114.4	104.4	94.4
500	96.7	98.2	99.9	101.5	101.4	101.1	103.7	105.7	107.0	108.8	111.9	115.7	117.9	121.0	119.1	116.2	112.2	102.2	92.2
630	94.3	95.9	97.7	99.2	99.1	98.8	101.3	103.2	104.6	106.3	109.5	113.3	115.5	118.6	116.7	113.9	109.9	99.9	89.9
800	91.8	93.6	95.3	96.8	96.7	96.4	98.8	100.7	102.1	103.9	107.0	110.8	113.0	116.2	114.3	111.6	107.6	97.6	87.6
1000	89.3	91.2	93.0	94.4	94.2	93.9	96.3	98.1	99.6	101.3	104.5	108.3	110.5	113.7	111.8	109.1	105.2	95.2	85.2
1250	86.6	88.7	90.5	91.9	91.7	91.3	93.6	95.4	96.9	98.6	101.8	105.7	107.9	111.0	109.1	106.6	102.6	92.6	82.6
1600	83.8	86.0	87.9	89.3	89.0	88.6	90.8	92.6	94.1	95.8	99.1	102.9	105.1	108.3	106.3	103.9	99.8	89.8	79.8
2000	80.8	83.3	85.2	86.7	86.3	85.7	87.9	89.6	91.2	92.9	96.2	100.1	102.3	105.5	103.5	101.1	97.0	87.0	77.0
2500	77.6	80.3	82.2	83.7	83.3	82.7	84.7	86.4	88.1	89.7	93.2	97.1	99.2	102.4	100.3	98.1	93.8	83.8	73.8
3150	74.1	77.2	79.0	80.5	80.1	79.4	81.4	83.1	84.8	86.4	89.9	93.8	95.9	99.0	96.9	94.7	90.2	80.2	70.2
4000	70.2	73.6	75.4	77.0	76.6	75.8	77.8	79.4	81.1	82.7	86.2	90.2	92.3	95.4	93.1	91.1	86.2	76.2	66.2
5000	65.9	69.5	71.4	73.0	72.6	71.7	73.7	75.3	77.1	78.6	82.2	86.2	88.2	91.3	89.0	87.0	81.9	71.9	61.9
6300	61.2	65.2	67.0	68.6	68.3	67.4	69.3	70.8	72.6	74.2	77.8	81.8	83.9	86.9	84.5	82.6	77.4	67.4	57.4
8000	56.9	61.1	63.1	64.6	64.1	63.0	64.9	66.3	68.2	69.7	73.4	77.7	79.7	82.8	80.5	78.8	73.9	63.9	53.9
10000	52.4	56.8	58.8	60.3	59.4	58.4	60.1	61.5	63.4	64.9	68.7	73.1	75.3	78.5	76.3	74.7	70.1	60.1	50.1
12500	47.6	52.0	54.1	55.5	54.4	53.3	54.9	56.2	58.3	59.7	63.5	68.2	70.4	73.8	71.7	70.2	66.0	56.0	46.0
16000	42.6	46.8	49.0	50.3	48.9	47.8	49.3	50.5	52.6	54.1	57.9	62.8	65.2	68.7	66.9	65.4	61.6	51.6	41.6
20000	37.3	41.1	43.4	44.6	42.8	41.9	43.2	44.5	46.6	48.1	51.8	56.9	59.6	63.4	61.9	60.3	56.9	46.9	36.9
25000	31.5	35.0	37.3	38.4	36.3	35.6	36.8	38.0	40.0	41.7	45.2	50.5	53.7	57.7	56.9	55.0	51.9	41.9	31.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
AFTERBURNER POWER, ZONE 3
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 05
AIRCRAFT CODE 079
OPERATION CODE 01002
PROFILE VERSION A
06 APR 76
PAGE G5

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	108.0	106.9	108.5	110.1	110.2	110.0	112.7	114.8	116.0	117.8	120.9	124.8	126.9	130.4	127.9	124.8	120.6	110.6	100.6
250	105.9	104.7	106.4	108.0	108.0	107.8	110.5	112.6	113.9	115.6	118.7	122.6	124.7	128.2	125.7	122.7	118.5	108.5	98.5
315	103.7	102.6	104.3	105.9	105.9	105.6	108.3	110.3	111.6	113.4	116.5	120.3	122.5	126.0	123.6	120.6	116.5	106.5	96.5
400	101.4	100.4	102.1	103.7	103.7	103.4	106.0	108.0	109.4	111.1	114.2	118.0	120.2	123.8	121.3	118.4	114.4	104.4	94.4
500	99.1	98.2	99.9	101.5	101.4	101.1	103.7	105.7	107.0	108.8	111.9	115.7	117.9	121.5	119.1	116.2	112.2	102.2	92.2
630	96.7	95.9	97.7	99.2	99.1	98.8	101.3	103.2	104.6	106.3	109.5	113.3	115.5	119.1	116.7	113.9	109.9	99.9	89.9
800	94.3	93.6	95.3	96.8	96.7	96.4	98.8	100.7	102.1	103.9	107.0	110.8	113.0	116.7	114.3	111.6	107.6	97.6	87.6
1000	91.7	91.2	93.0	94.4	94.2	93.9	96.3	98.1	99.6	101.3	104.5	108.3	110.5	114.2	111.8	109.1	105.2	95.2	85.2
1250	89.0	88.7	90.5	91.9	91.7	91.3	93.6	95.4	96.9	98.6	101.8	105.7	107.9	111.5	109.1	106.6	102.6	92.6	82.6
1600	86.2	86.0	87.9	89.3	89.0	88.6	90.8	92.6	94.1	95.8	99.1	102.9	105.1	108.8	106.3	103.9	99.8	89.8	79.8
2000	83.2	83.3	85.2	86.7	86.3	85.7	87.9	89.6	91.2	92.9	96.2	100.1	102.3	106.0	103.5	101.1	97.0	87.0	77.0
2500	80.0	80.3	82.2	83.7	83.3	82.7	84.7	86.4	88.1	89.7	93.2	97.1	99.2	102.9	100.3	98.1	93.8	83.8	73.8
3150	76.5	77.2	79.0	80.5	80.1	79.4	81.4	83.1	84.8	86.4	89.9	93.8	95.9	99.5	96.9	94.7	90.2	80.2	70.2
4000	72.1	73.6	75.4	77.0	76.6	75.8	77.8	79.4	81.1	82.7	86.2	90.2	92.3	95.8	93.1	91.1	86.2	76.2	66.2
5000	67.3	69.5	71.4	73.0	72.6	71.7	73.7	75.3	77.1	78.6	82.2	86.2	88.2	91.6	89.0	87.0	81.9	71.9	61.9
6300	62.2	65.2	67.0	68.6	68.3	67.4	69.5	70.8	72.6	74.2	77.8	81.8	83.9	87.1	84.5	82.6	77.4	67.4	57.4
8000	57.3	61.1	63.1	64.6	64.1	63.0	64.9	66.3	68.2	69.7	73.4	77.7	79.7	82.9	80.5	78.8	73.9	63.9	53.9
10000	52.4	56.8	58.8	60.3	59.4	58.4	60.1	61.5	63.4	64.9	68.7	73.1	75.3	78.5	76.3	74.7	70.1	60.1	50.1
12500	47.6	52.0	54.1	55.5	54.4	53.3	54.9	56.2	58.3	59.7	63.5	68.2	70.4	73.8	71.7	70.2	66.0	56.0	46.0
16000	42.6	46.8	49.0	50.3	48.9	47.8	49.3	50.5	52.6	54.1	57.9	62.8	65.2	68.7	66.9	65.4	61.6	51.6	41.6
20000	37.3	41.1	43.4	44.6	42.8	41.9	43.2	44.5	46.6	48.1	51.8	56.9	59.6	63.4	61.9	60.3	56.9	46.9	36.9
25000	31.5	35.0	37.3	38.4	36.3	35.6	36.8	38.0	40.0	41.7	45.2	50.5	53.7	57.7	56.9	55.0	51.9	41.9	31.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

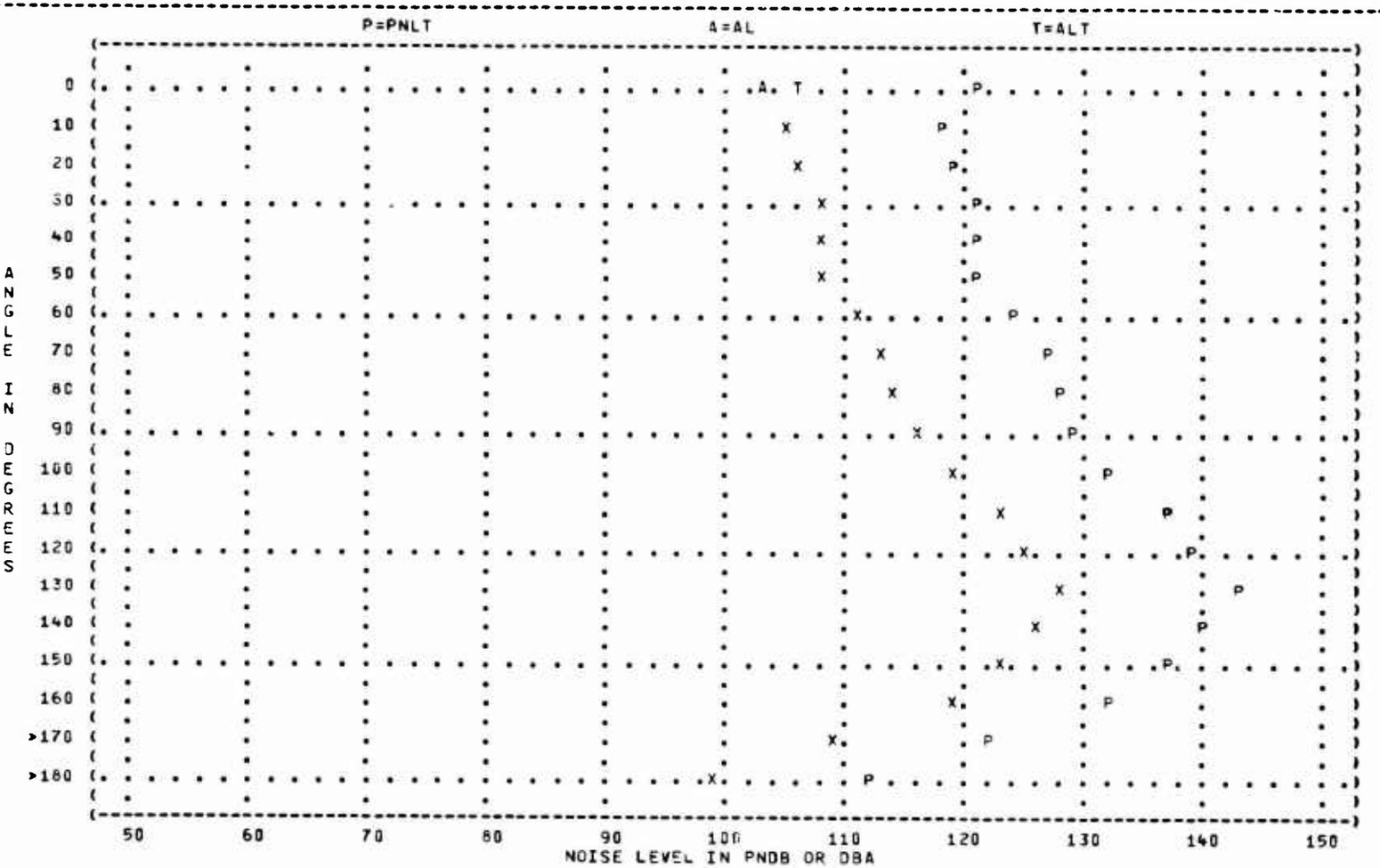
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT
ENG. TF30-P-100
GROUND RUNUP

OPERATION:
AFTERBURNER POWER, ZONE 3
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 71 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-079-001
RUN 05
AIRCRAFT CODE 079
OPERATION CODE 01002
PROFILE VERSION A
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> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

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